IQ Nexus Journal

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Colliding Neutron Stars Produce Gold

Featuring: Vernon M. Neppe
Surendra Singh Pokharna
Edward R. Close
Mira Cervenka
Louis Sauter
and others

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Science & Philosophy
papers, essays, dialogues, reviews

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music, poems, visual gallery

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sudoku, matrices, verbals

https://youtu.be/xA3boSKZFtU

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A 2013 study from the Harvard-Smithsonian Center for Astrophysics suggests that heavy elements, such as gold, are produced and ejected only during the merger of neutron stars.

Online Journal of IIS, ePiq & ISI-S Societies, members of WIN

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Non-members' contributions are welcome and every contribution has to be accompanied by an introduction from the contributor.

IQ Nexus Journal

was created to publish creative endeavours for members of the IIS, ePiqs and Isi-s web based societies as well as guests of other societies and non members..

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Cover page

Colliding Neutron Stars Produce Gold

Cambridge, Massachusetts – We value gold for many reasons: its beauty, its usefulness as jewelry, and its rarity. Gold is rare on Earth in part because it's also rare in the universe. Unlike elements like carbon or iron, it cannot be created within a star. Instead, it must be born in a more cataclysmic event known as a short gamma-ray burst (GRB). Observations of this GRB provide evidence that it resulted from the collision of two neutron stars – the dead cores of stars that previously exploded as supernovae. Moreover, a unique glow that persisted for days at the GRB location potentially signifies the creation of substantial amounts of heavy elements – including gold.

"We estimate that the amount of gold produced and ejected during the merger of the two neutron stars may be as large as 10 moon masses – quite a lot of bling!" says lead author Edo Berger of the Harvard-Smithsonian Center for Astrophysics (CfA).

https://scitechdaily.com/colliding-neutron-stars-produce-gold/

Special thanks to **Jacqueline Slade** *for her great help with English editorial work and* **Owen Cosby** *For reviving and restoring Infinity International Society and establishing IQ Nexus joined forum of IIS and ePiq and later ISI-S Societies for which this Journal was created..*

"Even though scientist are involved in this Journal, I and all involved in the IQ Nexus Journal have tried to keep the content (even though it is a Hi IQ Society periodical) on an ordinary human level as much as possible. In fact, is it not the case, that - to be a human being is the most intelligent way of life?"

Stanislav Riha

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Science, Philosophy, Essays & Reviews

The remarkable Besant-Leadbeater studies in Quantal Clairvoyance (quantal remote viewing) correlate profoundly with the Triadic Rotational Units of Equivalence Quantal models in Triadic Dimensional Vortical Paradigma

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Ladakh, Mirror image of Tibet

Jaromír Míra Červenka

"What direction is the world developing into,
and what direction should it be developing into". (Unedited)

Christian Sorensen

The remarkable Besant-Leadbeater studies in Quantal Clairvoyance (quantal remote viewing) correlate profoundly with the Triadic Rotational Units of Equivalence Quantal models in Triadic Dimensional Vortical Paradigm [a] [b]

Vernon M Neppe MD, PhD, FRS(SAf) [c], Surendra Singh Pokharna PhD [d], and Edward R. Close PhD, PE [e] [f]

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[b] Citation: Neppe VM, Pokharna SS, Close ER: The remarkable Besant-Leadbeater studies in Quantal Clairvoyance (quantal remote viewing) correlate profoundly with the Triadic Rotational Units of Equivalence Quantal models in Triadic Dimensional Vortical Paradigm *IQ Nexus Journal* 11: 3, V1 5-72, 2019.

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[d] Surendra Pokharna, PhD (Physics), Science and Spirituality Research Institute, Ahmedabad and Bhagawan Mahavira International Research Center (BMIRC), Jain Vishva Bharati Institute (JVBI), Ladnun, Nagaur; Rajasthan. Former scientist, Indian Space Research Organization (ISRO). This work was initially supported for Dr. Pokharna by the fellowship awarded by the Indian Council of Philosophical Research (ICPR). The authors are also grateful (alphabetically) to Prof. Paras Aagarwal, Prof. Narendra Bhandari, Dr. S M Bhandari, Dr. B. Bhandari, Dr. Rajmal Jain, Prof. Kumar Bhatt, Shri N L Kachhara, Dr. Shri C V K Maitryaji, Prof. M V Murthy Dr. Shailesh Nayak, Dr. R M Pandya, Jagat Pokharna, Prof. A R Prasanna, Prof. Saurabh Rindani, Prof. Sisir Roy, Dr. Shri Harish Seth, Dr. Sudhir Shah, Prof. B V Shreekantan, Dr. M R Shrinivasan, Prof. K P Sinha, Dr. C Sivaram, Dr. Prabhu Das Thakker, Dr. Rajni Upadhyay, Dr. Umang Pareekh, Prof Achinta Yagnik, for help and encouragement in the original Dr. Pokharna Besant —TDVP research where the data incorporated mainly the 3S-1t domain.

[e] Dr. Edward Close PhD, PE, DF (ECAO, DSPE, is a Physicist, Mathematician, Cosmologist, Environmental Engineer and Dimensional Biopsychophysicist. *Transcendental Physics* is one of Dr. Close's 9+ books. (www.erclosetphysics.com). *Reality Begins with Consciousness: A Paradigm Shift That Works* is co-authored with Dr Vernon Neppe and together they received the Whiting Memorial Prize in 2016 for their contributions.

[f] This paper has gone through multiple peer reviews. We particularly value the remarkable comments of Adrian Klein (Dimensional Biopsychophysicist), the many stimulating ideas of Joseph Slabaugh (Physics) and the complex structural challenges overcome by Jacqui Slade (English Editor). We further extend much appreciation for their assistance (alphabetically) to Manohar Lal Kalra (Physicist), Neil McNeill (Parapsychologist), Judith Milner (Psychiatrist), Markand Oza (Statistician), Chaitnya Pragya (Philosopher), Stan Riha (Editor), Stephan Schwartz (Consciousness Researcher), Dale Sobotka (Psychiatrist), Jessica Utts (Statistician in Consciousness Research), Suzan Wilson (Psychologist).

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The remarkable Besant-Leadbeater studies in Quantal Clairvoyance (quantal remote viewing) correlate profoundly with the Triadic Rotational Units of Equivalence Quantal models in Triadic Dimensional Vortical Paradigm

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Abstract

During the period 1895 to 1932, theosophists Annie Besant and Charles Leadbeater claimed to clairvoyantly visualize data on tiny quantal particles called 'anu-s'. They scored the number of 'anu-s', the smallest particles in each of all the (then known) 92 elements of the Periodic Table. The Besant et al published anu data made little sense until Pokharna in 2018 recognized that they might correlate with the Neppe-Close Triadic Dimensional Vortical Paradigm (TDVP) and Triadic Rotational Units of Equivalence (TRUE) quantum unit scores for nucleons.

When examined relative to our living 3S-1t usual physical state, the variation was found to be unidirectional with the spread of data close—10.94% when including electrons, and, more correctly, 8.80% without electrons. This is more appropriate because Besant was not describing electrons just nucleons—protons and neutrons. Both these 10.94% and 8.80% are still somewhat remarkable figures, but could not explain why this unidirectional variation was still as large as that.
In this paper, we recognized the need for adjusting to a 9-dimensional perspective, because the TDVP model involves 9 quantized finite dimensions and 3S-1t is just one incomplete physical component. To solve this we increased by trial-and-error the proportion of anu-s. Serendipitously, the best measure turned out to be exactly 9.0% added to the original Besant Anu scores. The specific 9.0% correction figure appears unrelated to it being for a 9-dimensional model. In the (exactly 9 finite dimensional) TDVP Triadic Dimensional Vortical Paradigm, the higher dimensions include the key dimensional domains of Consciousness, and this might play an important role in this data, as Besant et al used a meditation technique called 'anima siddhi' and claimed to acquire the data though Consciousness.

We added this 9.0% correction to the anu-s scores of 91 elements—Elemental [1]Hydrogen does not have a neutron and so had to be excluded. The resulting average difference was 0.0080 and the standard deviation 0.016374. This reflected a population score difference, and therefore analyzed as a single unit of correlation. The Pearson-r correlation coefficient is 0.9996. Tables do not appear to exist for such extreme outliers in standard deviations, but this amazing Pearson-r correlation of 0.9996 legitimately might exceed a probability value (p<) far beyond one in a trillion and it could even project graphically to one in a septillion.

This result adds this 'Quantal (Remote Viewing) Clairvoyance' phenomenon to the 9 previously described 6-sigma parapsychological categories. It appears to be the strongest data ever, not only statistically, but because the scores are largely irrefutable based on long previously published materials that made no sense until

the discovery of TDVP. Everything in TDVP is quantized, and TDVP results are empirically demonstrated: TRUE calculations are exactly equal to the normalized Large Hadron Collider (LHC) data with electrons scoring as 1, protons as 1836 and neutrons as 1839 so that any non-quantal hypotheses appear incorrect. Nevertheless, 6 of the 91 individual elements varied, though only slightly, in their results from the 85 other elements. These variations are small — between 2.5% and 5.2%— and the differences hypothetically could be explained by stable long-life common isotopes that might have appeared during several 'clairvoyant' readings of the same element. Of these elements, two varied negatively, four in a positive direction, supporting the 9.0% trial and error figure being a very close correction approximation one could get to (an r of 0.9996 is astonishing anyway). A scatter-gram plot also illustrates the almost linear correlation.

With respect, this paper more than any other in the history of Consciousness Research, provides indisputable data for psi. The data is not only profoundly statistically significant— apparently more than any other research ever before performed in the area— it is truly unmeasurable possibly beyond the one in a billion-billion probability, with correlation coefficients approaching one.
It also describes the never-before proven phenomenon of Clairvoyant Remote Viewing. Additionally, it has major implications for 'Consciousness' which may be functioning at the higher dimensional levels (e.g. Dimensions 7 to 9) based on TDVP theory. The results, in addition, appear to be fraud-proof because the Besant data has been available in published form for a century, the correlation with the Neppe-Close Triadic Dimensional Vortical Paradigm (TDVP) applies well-established statistical method, and TDVP data has been previously mathematically proven, is 100% replicable, and TRUE quantal unit scores definitively empirically validated. We must recognize the physical 3S-1t domain that we experience as part of our multidimensional, likely 9D, spectrum existence. Anu-s in Quantal Clairvoyance must apply in the 9D- TDVP-TRUE context.

For convenience, this paper is divided into 10 chapters, as if it were a short book, so that readers can more conveniently appreciate its content.

Key-words

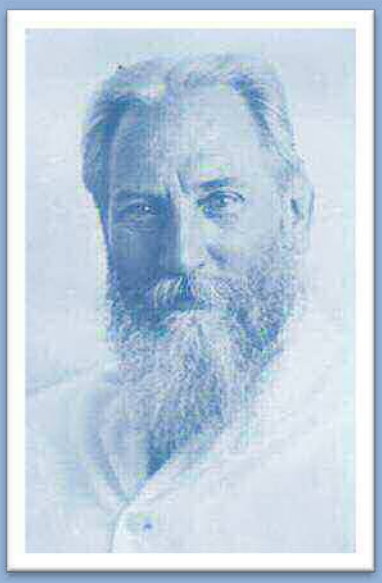
3S-1t, 9-D, anima siddhi, anu, Besant, clairvoyance, Close, consciousness, dimensions, electrons, elements, Jainism, Leadbeater, Murphy, Neppe, neutrons, nucleons, Phillips, Pokharna, protons, quarks, quantal clairvoyance, quantal units, quantal clairvoyance, quantal remote viewing, sigma, theosophy, TDVP, Triadic Dimensional Vortical Paradigm, Triadic Rotational Units of Equivalence, TRUE.

Background to the Besant-Leadbeater data: Chapter 1

Vernon M Neppe, Surendra Pokharna, Edward Close

In 1919, two famous early theosophists, Annie Besant and Charles Leadbeater, produced a largely forgotten 81 page manuscript *Occult Chemistry*[1]. This was based on research by Besant and co-workers particularly around 1908, but extending from 1895 to 1919 [1; 2]. Applying the techniques of Patanjali's *Yoga Sutra*[3] involving the so-called *Anima Siddhi*, Besant et al learnt to apply a unique kind of 'remote viewing clairvoyance'. This involved visualizing all the atoms listed in the Periodic Table of the Elements that had been discovered by that time (92). Furthermore, they even described the finer structure of atoms. Besant et al applied rigorous study criteria.

Annie Besant
1847-1933 (Wiki)



Charles Leadbetter
1854-1934 (Wiki)

A brief history after the initial Besant et al work

Besant et al's[1; 2] descriptions could be regarded as equivalent to what was described later independently as 'quarks'[4; 5; 6; 7; 8] by Gell Mann[9; 10], [6; 7; 8;] and Zweig in 1964[11] and their constituents.

Quarks are subatomic particles carrying a fractional electric charge, postulated as building blocks of the hadrons. Quarks have not been directly observed, but

theoretical predictions based on their existence have been confirmed experimentally. Most stable matter is made from protons (which have 2 up-quarks and 1 down-quark) and neutrons (with 2 down-quarks and one up-quark) There are four other kinds of quark but they are not stable and only exist in the pool of theoretical substances—chemical soup.[12; 13]

Phillips

Their work was much later analyzed in detail by the London physicist Stephen Phillips in 1995[14]. Dr. Phillips pointed out that their finding could be possibly clairvoyance. Phillips's contributions in the area are well-informed, but the time context was long before TDVP[15; 16; 17] and TRUE[18; 19] were developed, limiting his interpretations to the knowledge at the time. Moreover, a Yale Chemistry group in 1999 rejected this work out of hand and this rejection appeared logical at that time, as this was before the figures produced could be validated and so the data largely looked like junk—the data did not seem to correlate with anything known.[20]

Pokharna

Thereafter, Pokharna[21; 22] examined the work of Annie Besant and coworkers and its detailed analysis by Stephen Phillips[14 23] and, to a degree, the work of Jainism[21; 22; 24].

The difference is that by the time of Pokharna's reanalysis [21; 22], Neppe and Close had described their Triadic Dimensional Vortical Paradigm (TDVP) [15; 16; 17] and particularly Triadic Rotational Units of Equivalence.[18; 19; 25; 26; 27] That allowed for analysis of data based on published material and explaining what looked like illogical figures into some remarkably correlative data.

Moreover, Pokharna's 3S-1t recognition led Neppe to recognize the Besant et al data should be converted to a multidimensional model. This is recognized in this paper for the first time.

Fundamental terms in this Besant research [1; 2]: Quantum units, Dimensional Biopsychophysics, Anima Siddhi, Theosophy and Meditative States

Based on the known 'particle soup' data[12; 13], Close and Neppe applied normalization of scores to two stable enduring quarks in their mass-energy equivalents[28] so as to be able to more easily quantitate them and compare them.[29] Therefore, they based the data on up-quarks and down-quarks with respect to the mass-energy of the electron[30]. They defined the basic unit of mass and energy,

known as the Quantum Unit. within the concept of their Triadic Rotational Units of Equivalence—TRUE).[18; 19; 25; 26; 27] They calculated how by normalization of masses of quarks with respect to the mass of an electron and defined a quantum unit of matter as the mass of an electron[27; 28; 30; 31]. This is an important way to rigorously extend concepts in particle physics [32; 33; 34; 35; 36; 37] and Dimensional Biopsychophysics[38; 39].

Anima Siddhi is the ability to reduce one's consciousness to the smallest possible size. This siddhi offers the practitioner the practical knowledge and understanding of the most delicate interconnections of matter, space and energy, and consciousness, and the ability to manipulate them. A particularly controversial aspect associated with this siddhi is the alleged ability to control the density of an object or one's body.[40]

The process of clairvoyance appears to be a reality and also anima siddhi might be a big concept worth exploring further for providing knowledge of matter and its ultimate constituents.

Theosophy involves several philosophies maintaining that a knowledge of God may be achieved through spiritual ecstasy, direct intuition, or special individual relations. The formal movement was founded in 1875 as the Theosophical Society by Helena Blavatsky and Henry Steel Olcott[41].

Meditation is closely allied to these concepts and include a large subgroup of other ways to communicate through altered states of consciousness. There are many different meditation techniques that could theoretically accentuate clairvoyance. Mediation is particularly prevalent in the East, sometimes involving prayer, as in Hinduism, Buddhism and in Jainism[22; 42; 43; 44]. All of these induce altered states and in the Judeo-Christian context the equivalent might be Kabbalic mysticism[42; 45; 46; 47; 48; 49; 50; 51] which involves both active and passive meditation. These different induced altered states have become very common. As an aside, one of the co-authors, Dr. Edward Close, is one of those rare Westerners who has achieved a high level of mastery in yogic meditation methods, and has written about his experiences in his *Book of Atma.* [52]

Anu is the term used for the smallest particles in existence. In the Besant research they examined the anu scores of each of the 92 periodic table elements known at the time. [1; 2] Anu is a Hindi term describing a minute part or portion of matter; a morsel; a little bit; an atom or even smaller particles.

ESP and clairvoyance. Fundamental to the Besant work[1; 2] are terms relating to apprehension of objects, others and events and information. We generally classify these under the fabric of extrasensory perception (ESP)[14; 23; 53; 54; 55; 56] although newer terms[57] like Neppe's delta-apprehension[54], Dossey's non-locality[58; 59] in the parapsychological context[60; 61], Neppe's relative dimensionality and relative non-locality,[62; 63; 64; 65] and Schwartz's use purely of non-locality[66] are logical. This is particularly so if we use the 'information' model[67; 68] and just argue this is 'psi' and not cybernetically afferent psi or for that matter, central psi or efferent psi (also, called psychokinesis).

A subtype of all these terms is clairvoyance involving communication of some kind of mind or self with objects or events. The Besant work can be described as a specific kind of Clairvoyance which Besant[1; 2] and later Phillips[14; 23] use in a non-descript fashion, but which Neppe is now calling Quantal Clairvoyance. Alternatively, because this involves some kind of viewing not so much at a distance or across time, this is to the microscopic or quantal level. We could therefore also call this Quantal remote viewing or even remote viewing clairvoyance.

The initial Pokharna et al research[21; 22] on the Besant data[1; 2] implied an exploratory approach with likely extensive further discussion among scholars from fields of science, philosophy, religion, spirituality and interdisciplinary studies.

A new formalism in science is required which starts by assuming finite reality to consist of discrete units at very fundamental level.

The Key History of the Besant et al Research: Chapter 2

Vernon M Neppe, Surendra Pokharna, Edward Close

Historically, as early as 1895 (but mainly from 1905-1932), Annie Besant and some of her coworkers at the Theosophical Society[2] claimed to have actually "seen" constituents of the Hydrogen atom and the atoms of 91 other elements known at that time with atomic numbers 1 to 92 through clairvoyance.[1; 2]

Besant et al found that the Hydrogen atom consisted of 18 constituents known as *Anu*.[1] An 'anu' is the name of the smallest physical particle of matter in Hinduism. The group of *anu-s* are interconnected and the groups themselves are having motions of different types. This group of six spheres is surrounded and enclosed in a shell, surrounded by some type of matter.

Interestingly, much more than a half century later, Saul-Paul Sirag[69] and later Edward Close[70] showed the triadic nature of quarks and there are six stable quarks in the neutron and proton of Deuterium, ^{2}H.

Hydrogen:
For the hydrogen atom, they 'saw' six subgroups of three, each distributed into two triangular structures inside the circles which are actually spheres and are in constant motions of different type, resembling vortices.

Besant et al applied constituents of the atoms of several elements through clairvoyance, by a technique they developed from 1895 to 1932 through the *anima siddhi*. This is how they found that the Hydrogen atom consisted of 18 constituents known as *Anu* (the smallest, ultimate material particle) grouped in six subgroups of three, each grouped in two triangular structures. The circles in 2-dimensions are actually spheres and are in constant motions of different types, but group of *anu-s* are interconnected and the groups themselves are having motions of different types.

We provide an example of a page from the Besant Leadbeater book. All pictures and diagrams in this paper are derived from *The Project Gutenberg E-book of Occult Chemistry.* [71] *In this page, Yttrium (^{39}Y) and Nitrogen are discussed (p45).*

Figure 1: Yttrium (^{39}Y) and Nitrogen as examples of the Besant-Leadbeater work. (p45)

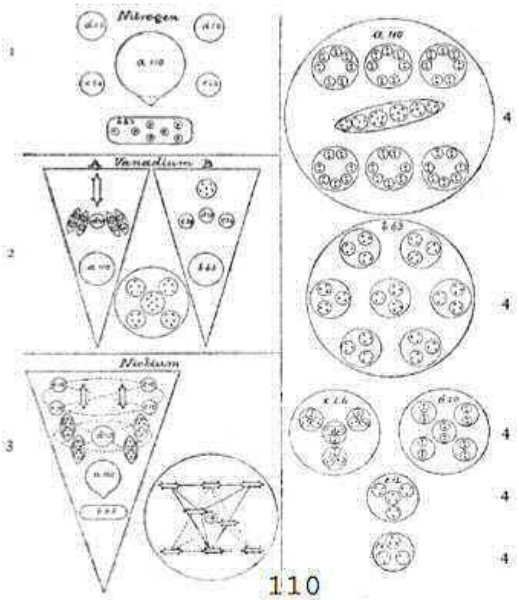
The central globe presents us with two tetrahedra, recalling one of the combinations in gold (see Plate VII *d*), and differing from that only by the substitution of two quartets for the two triplets in gold.

One funnel of yttrium contains exactly the same number of atoms as is contained in a gaseous atom of nitrogen. Further, *a*, *b*, and *d* are all nitrogen elements. We put on record these facts, without trying to draw any conclusions from them. Some day, we—or others—may find out their significance, and trace through them obscure relations.

YTTRIUM:	6 funnels of 261 atoms	1566
	Central globe	40
	Total	1606
	Atomic weight	88.34
	Number weight 1606/18	89.22

The corresponding negative group, of nitrogen, vanadium and niobium, is rendered particularly interesting by the fact that it is headed by nitrogen, which—like the air, of which it forms so large a part—pervades so many of the bodies we are studying. What is there in nitrogen which renders it so inert as to conveniently dilute the fiery oxygen and make it breathable, while it is so extraordinarily active in some of its compounds that it enters into the most powerful explosives? Some chemist of the future, perhaps, will find the secret in the arrangement of its constituent parts, which we are able only to describe.

NITROGEN (Plate XII, 1) does not assume the cubical form of its relatives, but is in shape like an egg. Referring again to our 1895 investigations, I quote from them. The balloon-shaped body (see 4 *a*) floats in the middle of the egg, containing six small spheres in two horizontal rows, and a long ovoid in the midst; this balloon-shaped body is positive, and is drawn down towards the negative body *b* (see 4 *b*) with its seven contained spheres, each of which has nine atoms within it—three triads. Four spheres are seen, in addition to the two larger bodies; two of these (see 4 *d*), each containing five smaller globes, are positive, and two (see 4 *c*) containing four smaller globes, are negative.



NITROGEN:	Balloon	110
	Oval	PLATE XII
	2 bodies of 20 atoms	40
	2 " " 24 "	48
	Total	261

Data relating to the prior models

The mere fact that, for example, a cluster of three *anu-s* appears in six different ways in one element suggests some conceptual similarity of the *anu-s* with the way quarks are clustered, as the stable up-quarks and down-quarks, also, appear in groups of three in protons and neutrons. These make up 18 Anu-s. A similar concept is found in the TDVP model indicating that the Hydrogen atom has 18 quantum units.

There is a *prima facie* agreement between the two models: that of Besant, based on clairvoyance, and TDVP, based on principles of physics. It might imply that clairvoyance (and the technique used *anima siddhi*) is a realistic technique by which structures at the quantal level might be seen.

Pokharna noted that the key to the correlation of Anu-s with TDVP is in the quarks which are parts of the elementary structure of the protons and the neutrons (the 'nucleons').[72]

Applying simple quantum theoretical models everything is integral (Table 2A)[25; 73]: Applying the mass based on rest mass in mega-electron-volts and velocity of light in meters/second may appear to be complex derived quantities like 2.01 (up-quark), 4.79 (down-quark) and 0.51 for electrons, when normalized with the electron being one, the resulting figures are 3.94, 9.37 and 0.51 respectively.[28] But the basis of the Triadic Dimensional Vortical Paradigm is that nature is quantized following on Planck's ideas of everything being quantized.[74; 75; 76; 77]

Table 2A. Rest masses of constituents of Hydrogen atom: proton (two quarks) and electron and their normalized rest masses

Constituent	Number	Rest Mass in Mev/c ^{2}	Normalized mass	Quantum Equivalent Units
Up quark	1	2.01	2.01/0.51 =3.94	4
Down quark	1	4.79	4.79 / 0.51 =9.37	9
Electron	1	0.51	0.51/0.51= 1	1
Mev=Mega-electron-volts and c is velocity of light in meters /second				

Therefore there is an integral nature of the up quark (converted to 4), the down quark to 9 and the electron to 1. Whereas this could have been initially speculation, based on repeated correct calculations it is correct.[27] This led to the application of the Close Calculus of Distinctions[70] and applying it further, the Close -Neppe

Calculus of Dimensional Distinctions[78; 79] which recognizes the key application of integrals in the nature of reality. Close and Neppe have applied these ideas and recognized how fundamental CODD is to our reality and this has been the major mathematical technique in Triadic Dimensional Vortical Paradigm.[30]

Through the studies carried out in the Large Hadron Collider[80; 81] and other sources, the masses of electron, up-quark and down-quark were calculated, respectively at 0.511 Mev/c^2, 2.01 Mev/c^2 and 4.79 Mev/c^2. If the mass of the electron is taken as 1 then dividing the latter masses of two quarks by this value 0.51 and making the result equal to the nearest integer, one finds mass/energy values as 4 (up quark) and 9 (down quark). These values of 4 and 9 are treated as multiples (integers) of the smallest quantum volume required to generate a stable proton. (As in Table 2A).

As a proton has two up quarks and one down quark, their total normalized mass/energy values in whole numbers is 17 (=4x2 + 9). Neutrons reflect one up quark and two down.

Thus for the proton, a value of 17 is the normalized mass and energy. By similar analysis the mass and energy values for the neutron has been found to be 22. For Hydrogen if this value for the proton is combined with normalized mass/energy value of 1 for the electron then one finds a total value of 18 for hydrogen.[25; 82]

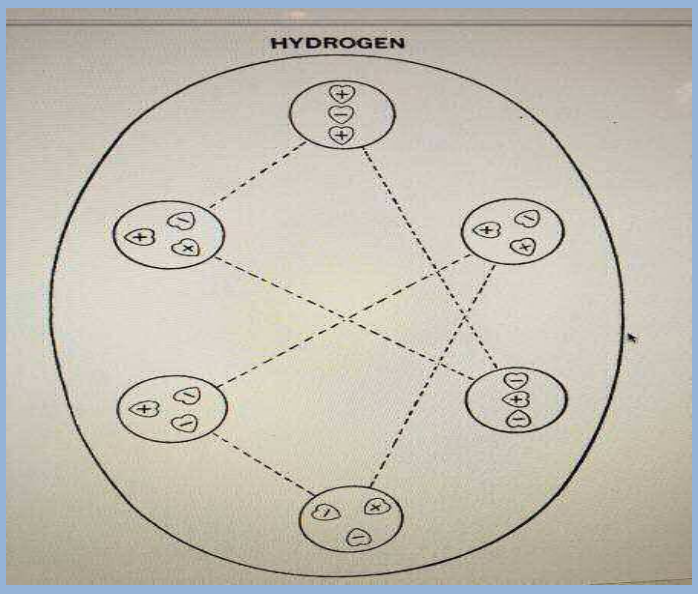
Hydrogen does not have a neutron (as in Table 2B) with the total rest mass of Hydrogen then being 18.
Effectively, this means that one is comparing the previously strange anu scores which did not seem to be relevant prior to TDVP, with quantal bases of Triadic Rotational Units of Equivalence[18; 19; 26; 27; 83] from the Triadic Dimensional Vortical Paradigm (TDVP)[15; 16; 17; 32].

The number of mass/energy units for the hydrogen atom are 18 (17 coming from proton and one from electron). These 18 are, therefore, the smallest quantum units—the total number of *anu* in the Hydrogen atom.

In the Besant model[1; 2], *Anu* represents the smallest physical unit in this model. Hence physically these two entities are similar. This agreement originally led Dr. Pokharna to examine the basic unity at a very fundamental level in these two models[21].

In Figure 2, Besant described six large spheres and 18 small spheres (Anu-s) in the Hydrogen atom. These appear triadic. Triads (threes) are fundamental in TDVP (indeed, the name is *Triadic* Dimensional Vortical Paradigm).

Figure 2: The Hydrogen atom as conceptualized by Besant's anu-s.



[1] Hydrogen has only 1 proton and no neutron. The absent neutron therefore excludes Hydrogen-1 (Protium) from the analysis we have performed in this paper, but ironically this initial data was Pokharna's initial clue that something correlative between TRUE and Anu was happening.

Table 2B: Exact structure of Hydrogen atom and its normalized rest mass

Constituents	Number	Total normalized rest mass
Up Quarks	2	8
Down Quark	1	9
Electron	1	1
Total rest mass of Hydrogen	1	18

Other elements

All other elements have protons and neutrons and the nature of this comparison is Besant's Anu scores with the Quantal Unit scores of the nucleons in the elements,

Quarks could also have some fine structures which were visualized through Besant et al's clairvoyance. They recorded *anu* scores for the "seen" structures of all elements available at that time (91 of the 92 atomic number elements ranging from Hydrogen and up to Uranium). This reflects remarkable agreement between the number of *anu* and number of quantum units (QU) found for atoms of ninety elements in the early analysis. Besant subdivided the structures into six different divisions, viz. spike, dumb-bell, tetrahedron, cube, bars and star, not further discussed here. Details are available in the Besant and Leadbeater book[1] with very beautiful symmetric designs.

In the previous work of Pokharna et al, [21] the researchers compared *anu-s* and quantum units initially for the first 20 elements of the periodic table. The Quantum Units for an element is computed from their number of protons (p), neutrons (n) and electrons (e) in the atom, taking p=17 QU, n= 22 QU and e= 1 QU. A difference parameter was defined for an atom of an element as follows: Percentage Difference for an atom of an element = (Number of quantum units -Number of anu)X100 / Number of quantum units. In the previous work of Pokharna et al, the researchers compared *anu-s* and quantum units initially for the first 20 elements of the periodic table. The Quantum Units for an element is computed from their number of protons (p), neutrons (n) and electrons (e) in the atom, taking p=17 QU, n= 22 QU and e= 1 QU. A difference parameter was defined for an atom of an element as follows: Percentage Difference for an atom of an element = (Number of quantum units -Number of anu)X100 / Number of quantum units.

Data relating to the prior models of the Besant-Leadbeater data before Quantum Units analyses: Chapter 3

Vernon M Neppe, Surendra Pokharna, Edward Close

There are other major data sets that previously would have seemed worthless. It would be like clairvoyantly showing 3-dimensional pictures of the lung 100 years ago, and then confirming them slightly with first X-rays and then MRI and Ultrasound. Would a researcher in 1850 have regarded that 'clairvoyance' as illogical nonsense? Today such a speculative result may turn out 100% accurately. This was so in the famous chess game of 'Maróczy' vs Korchnoi, where it required computerized analyses to fit the data properly.[84; 85] Until then it could not have been calculated. Retrospectively, it would also be so in the so-called Rosemary Xenoglossy[86] where results only became more legitimate once ancient Egyptian in the correct dynasty were analyzed.

A London physicist, PhD author, Stephen Phillips in 1995[14; 23] wrote two lengthy documents that strongly supported the possibility of viewing quarks and even their sub-parts through clairvoyance, as claimed by Annie Besant and her coworkers. He then tried to fit in his model of sub-quarks (also known as 'omegons') in that. However, in the retrospectoscope, based on the period 2011-2019, applying TDVP principles, and realizing the need for quantization, omegons (subquarks) as a physical tiny structure should not exist in the finite as structures. This is because they would contradict all of what we know about quanta and the data on TDVP. TDVP has been repeatedly proven through the correct LHC correlations; quantal corrections to 9 dimensions; the life elements in the macro-world; the link up of gimmel; and Triadic Rotational Units of Equivalence with Dark matter and dark substances.

But technically, we might now be referring to 'subquarks' or 'omegons' as equivalent to or, at least having some resemblance to the up-quarks and down-quarks because both the Besant drawings and the quarks in protons and neutrons are triadic in number. There are other ways to interpret this: Phillips was calling these 'particles' 'subquarks' because TDVP integral quantization had not yet been definitively demonstrated; alternatively, the discovery in Triadic Dimensional Vortical Paradigm of gimmel might be related; or areas that were regarded as 'particles' below the level of the quantized quarks could have been portions of the never-ending infinite continuity. We might never know what was being

clairvoyantly perceived, but this is just an attempted amplification of history not of scientifically cogent fact today.

It is likely Besant was portraying single atoms only of each element as the two that Phillips interpreted do not appear to have cogent data. Nevertheless, the Besant et al data as drawn is remarkable. Alternatively, these subquarks could be regarded as 'subquantal'. Neppe and Close have repeatedly emphasized this exists but likely in the infinite continuity not as subquantal particles, as argued by Klein and Boyd[87; 88]. Alternatively Neppe-Close have pointed out that such concepts may be a third substance attached to all stable particles, and that is gimmel[89; 90; 91] which has specific scores for each substance but derives likely from the infinite.[17; 62; 63; 92; 93; 94; 95; 96]

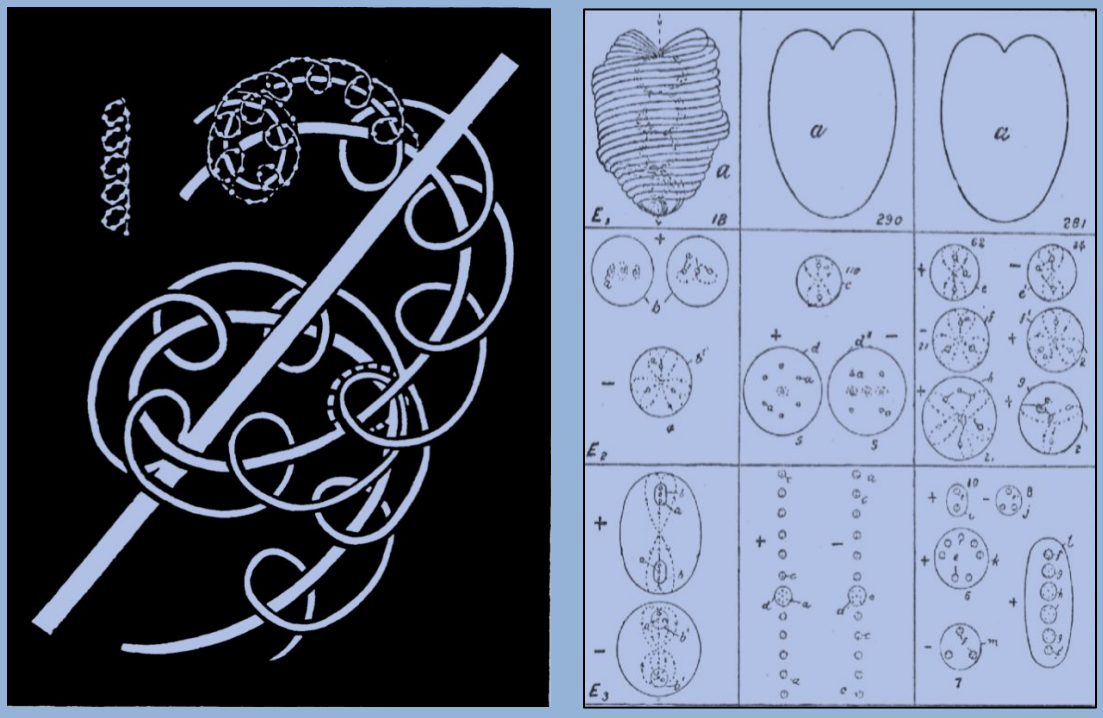
Brendan Murphy[97; 98] is an artist and book-author on science and spirituality, but he, too, supported the Besant work and the Phillips analysis. Contrast this with the work of the Yale chemists[20] who negated it. But in all these instances, the TDVP data and actual figures that correlate are unavailable. But the Phillips, Murphy and Yale comments preceded the quantum unit TDVP calculations. However, it introduces the area of vortices and strings. We examine those briefly. What were described as 'vortices' in Diagram Series 2 sometimes appears rotated in another direction.

To Phillips, the strings of the *anu-s* are the similar to those which scientists have started visualizing some 60 years later through string theories and superstrings theories[14]. Even Phillips[14 23 (p 509)] writes that 'this prediction of the author's model may remain valid despite the latter's wrong prediction of the number of quark generations and its incompatibility with superstring theory, which is based upon a unified gauge symmetry group of lower rank.' This is based on the many theories of strings.[99; 100; 101; 102; 103] TDVP was unavailable at the time that Phillips was writing about these factors but their visualization involved diagrams of vortices which are fundamental to the Neppe-Close Triadic Dimensional *Vortical* Paradigm.[15; 16; 17; 104] (Figure 3)

The *anu* descriptions were also amplified by Besant et al apparently by applying more concentrated focus. The components were found to be consisting of vortex-like structures having apparently 10 string-like structures, but interwoven in complicated way. Figure 3A and the linked Figure 3B diagrams, for example, reflect the representations are 2-dimensional diagrams. Hundreds of diagrams are published in their book *Occult Chemistry* depict groups of 'ultimate physical atoms' bound by string-like "lines of force."[14 (p 514)]

To Neppe[105; 106; 107; 108] and Close together [109], having formulated TDVP with vortices being an essential component, these descriptions resemble dynamic moving vortices with threes and at times up to 7 smaller rotations and these would potentially fit their description of vortices in their Triadic Dimensional Vortical Paradigm model [109].

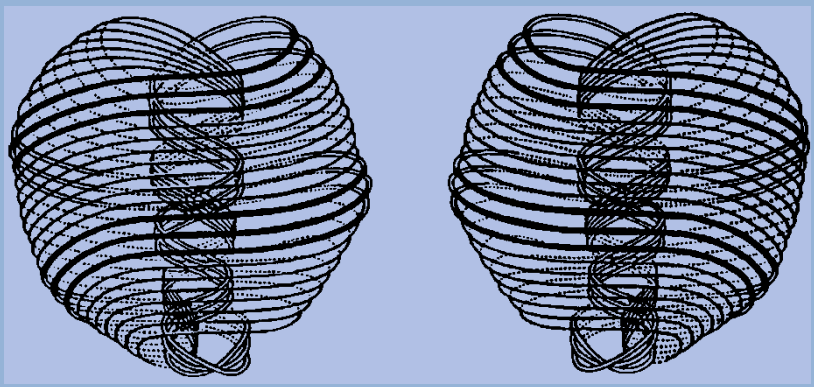
Figure Series 3A "Vortices" on left (P20), varying structures including subdivisions on right (P8)



Vortices subquarks and strings: important aside comments

Besant and Leadbeater[1] describe how these whorls (which look like vortices to us) consist of 10 separate, non-touching, closed curves, or "whorls," three of which ("major whorls") appear brighter and thicker than the other seven "minor whorls." … "The whorls spiral side by side around the surface of a sphere.[14 23 (p 5497)] In (Neppe and Close) TDVP, a great deal including quarks are in threes ('triads) and spirals (vortices).

Figure 3A: Whorls which spiral clockwise 'positive' and 'anticlockwise' ('negative')



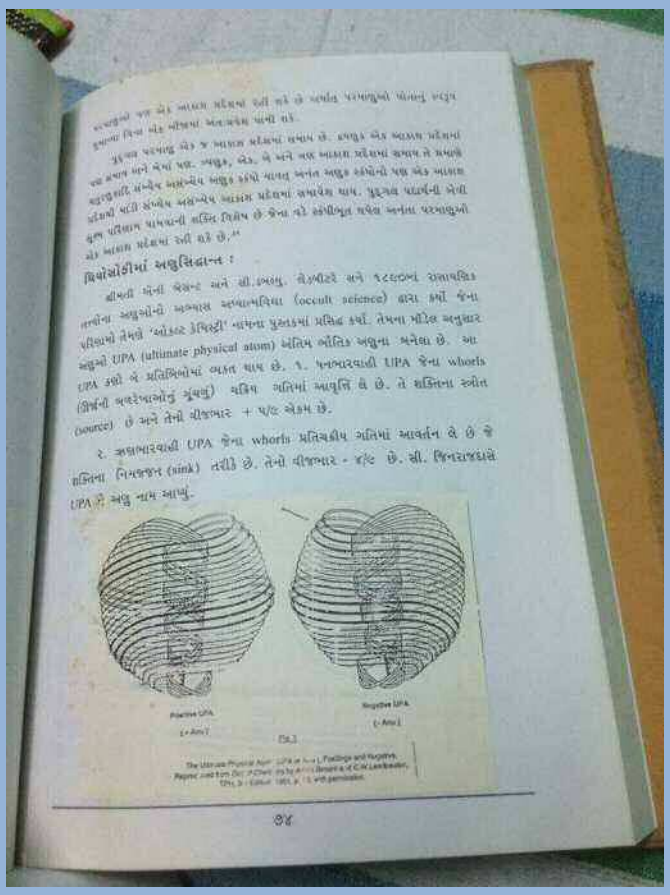
POSITIVE **NEGATIVE**

The diagrams in Besant et al, suggest two directions of rotation. Interestingly such descriptions are important pharmacologically as many active drugs are 'levorotatory' compared with inactive ones that are 'dextrorotatory'.[110] This is fundamental and extends to amino-acids.[111] This is so much so that in biology, concepts of life are linked with these rotations which effectively are vortical movements and through TDVP[109] we would hypothesize[112 113; 114; 115] possibly with the infinite continuity also involved[96] as part of the life[96; 116; 117; 118; 119; 120] concept.[121; 122; 123; 124; 125]

Still the Besant description of 'strings' is interesting[1; 2] because TDVP involves vortices not strings that get smaller and smaller[126]. The Besant data could technically and just possibly fit some of the foldings or curlings of strings[99; 100; 101; 102; 103] within the outer vortex, but Phillips spoke of a 'subquark' state[14 23], and in TDVP we do not regard these subquarks as structures but a property of the third substance gimmel which derives likely from the infinite continuity.[25; 73; 89; 118; 127; 128; 129] This is important as the whole model of quanta being integral could be compromised if these were physical states as in the Subquantal model of our esteemed colleague, Dr. Adrian Klein[88; 130]. Hence, there is a need to critically examine these possibilities as they can provide new avenues of thought. This we can discuss in a separate paper.

Strings observed in two different types of *anu* might have some resemblance with the strings visualized in the string theory for elementary particles of matter.[99; 100; 101; 102; 103] We do not know that, because the descriptions by Besant are unique in quality.

Figure 3: This page from Besant et al Occult Chemistry [71] is derived from a thesis written in Gujarati language apparently from the University of Gujarat in Vadodara.



This Figure 3B reflects the whorls above in Figure 3A.
It originally inspired Dr. Pokharna to examine the Besant data in more detail. This examination of vortical structures is not easy as even the subtlest of variations create non-replicable situations. Some of this difficulty is to repeat in space and time because the same situation never reoccurs exactly the same way (time is always different as is space and likely consciousness).[131] This is in part because of observer experimenter effects.[132; 133; 134; 135; 136; 137] and the inability to replicate because even the observer and the subjects always vary. These statistics are despite there being many problems faced by scientists including applying consciousness in the modern sciences.[131]

The actual Besant et al evaluations (the 3S-1t data): Chapter 4

Vernon M Neppe, Surendra Pokharna, Edward Close

In her book *'Occult Chemistry',* Annie Besant and her coworkers of the Theosophical Society argued that through the power of clairvoyance and 'anima siddhi' they had 'seen' the smallest particles of matter like Hydrogen atoms and atomic structures of all the 92 elements of the Periodic table, prevalent at that time[1]. Besant et al describes 'observing' even the smallest structures of atoms and they termed this, the '*anu*', the smallest physical part of matter.[1]

In their study, the number of *anu* observed by Annie Besant, Charles W Leadbeater and also C Jinrajdasa of the Theosophical Society clairvoyantly noted the Anu scores of 92 elements (plus even a Hydrogen isotope which was later called 'Deuterium' ^{2}H or simply D). Regrettably, the Anu scores were regarded as meaningless as they did not correlate significantly with any known scientific data.

Key history to this study

The first clue as to the remarkable scientific relationship described below was Dr. Pokharna noting there are 18 units in the case of Hydrogen atom in Anu, and this can be taken as 18 quantum units for mass/energy in the TRUE score for the neptrons (neutrons, protons, and electrons but not gimmel).[21; 22] This astute observation allowed for a re-analysis of the Besant Anu scores.

Pokharna[21; 22] observed how the Quantum Unit scores for Hydrogen correspond with the Anu scores of Besant. He recognized that this was not a coincidence as the results remarkably match with the number of quantum units in the Triadic Dimensional Vortical Paradigm (TDVP) description[16; 17; 39; 138] of Triadic Rotational Units of Equivalence (TRUE) for these elements[18; 19; 26; 27; 73; 83]. Although, initially there is an almost 11% difference, the changes are always in the same direction and there is little variance. Yet the methods used to obtain the data were entirely different.[21; 22]

In this study, Neppe, Pokharna and Close performed analyses using Microsoft Excel. The full spreadsheet cannot easily be tabulated here as a one-paged table would make the print very small. There are more than 30 columns with some 97 lines. This leads to numerous pages and about 3000 data pieces.

We have therefore subdivided the data into two tables, 1A and 1B, and condensed them to contain only essentials to facilitate reading. The key results are in the final column F in Table 1B. Table 1B shows the analysis of the 91 elements after the 9.0% correction factor found by empirical analysis. It should be read in conjunction with Table 1A that lists basic components that are not repeated.

Table 1A lists several rather obvious columns: the atomic number, then the atomic weight, then the numbers of protons, electrons and neutrons, and the score based on TDVP Triadic Rotational Units of Equivalence Quantum Units. However, re-reading the original Besant et al descriptions, it appears that the 'clairvoyance' was based on nucleons, but electrons had a different structure and were not being recorded: The score based on quantum units minus electrons, and also does not include gimmel which is fundamental to Triadic Rotational Units of Equivalence.

Technically, Besant et al list 92 elements. The analysis deliberately, from the start, excluded Hydrogen. This is because H has no neutrons. The mean and standard deviation is therefore based on 91 elements. Deuterium D being a major Hydrogen isotope was not included because it is an isotope, though a very important one.

It's ironic that the original Pokharna work was based on the similar anu scores of Hydrogen to its quantal unit score: both were 18 when electrons were included. Including Hydrogen statistically, as a tiny element amongst 92, however, would not make much difference.

In Table 1A, the number of quantum units and number of *anu* belong to an atom of an element. The overall error was found to be + 8.8 percent only. The positive sign implies that the number of quantum units are always more except for Hydrogen where these two are equal (=18). The data was then computed for 90 elements and has been found to be slightly higher, that is 10.8 percent (Table 1A in 3S-1t).

This still initial low percentage error is remarkable because the data comes from two entirely different sources. However, one should be careful about equating these numbers of quantum units and *anu*. The comparison is meaningful in the sense that the *anu* is known as the smallest physical particle, whereas the TDVP model applies only to the quantum units components of TRUE (i.e. without gimmel) as the smallest physical units of mass/energy (later discovered to likely be quarks). These are smaller constituents of particles than in an atom (protons, electrons and neutrons). The close match between *anu* and number of QU in various atoms gives credence to clairvoyance technique.

In Tables 1A and 1B our analysis therefore starts at Helium (He). The data is based on the application by trial and error of using a multidimensional score which closely allows the adjusted anu scores to meet the TQUes. (TQUe = Quantal units in TRUE TDVP(less electrons) = QUs in nucleons. Hydrogen is excluded. We compared the number of *anu* observed by Besant et al and the quantum units proposed by the TDVP model.

In Table 1A, prior to any corrections (using the whole atom—all neptrons—including electrons), the average error of the difference between the two for 91 elements has been found to be just 10.94 %, but the findings are unidirectional and found to not deviate too much from each other (Standard Deviation 2.39). This unidirectional closeness of the 92 elements is remarkable. It became closer because, as indicated, we recognized Besant et al [1; 2] only used the nuclei not the electrons. Consequently, the difference was only 8.8%. (Standard Deviation 1.48).

The data in Table 1A is still remarkable even without any adaptation, and applying the source of Pokharna's reports[21; 22]. The results are all unidirectional, initially within the 11% range (10.94%), and when one adapts in terms of absence of electrons, within 8.80% even using the 3S-1t model. These figures appear remarkably close and suggest something unusual might be happening. Nevertheless, studies like to apply a magic <5% figure for differences and these are more. So these differences though still remarkable over 91 elements appear still too much for scientists.

Table 1A. Quantum Units (Mass-energy) and the number of *Anu-s* observed through clairvoyance in atoms of 92 elements relative to 3S-1t including electrons (Es) and excluding electrons

(Ps= Protons, Ns=Neutrons, QUs = Quantum Units. Hydrogen excluded).

Description					**A**	**B**	**C=A-B**	**D**	**E=C/A**	**F=D/A**
Element	**Symbol**	**# Ps**	**# Ns**	**# Es**	**TDVP QUs**	**# Anu-s**	**# QUs - *Anu-s* difference**	**TDVP TQU (without Es) –Anu-s**	**3S-1t % difference with Es**	**3S-1t% difference without Es**
Hydrogen	H	1	0	1	18	18	0	17	-	(5.56)
Helium	He	2	2	2	80	72	8	6	10.00	7.50
Lithium	Li	3	4	3	142	127	15	12	10.56	8.45
Beryllium	Be	4	5	4	182	164	18	14	9.89	7.69
Boron	B	5	6	5	222	200	22	17	9.91	7.66
Carbon	C	6	6	6	240	216	24	18	10.00	7.50

Description					A	B	C=A-B	D	E=C/A	F=D/A
Element	**Symbol**	**# Ps**	**# Ns**	**# Es**	**TDVP QUs**	**# Anu-s**	**# QUs - *Anu-s* difference**	**TDVP TQU (without Es) –Anu-s**	**3S-1t % difference with Es**	**3S-1t% difference without Es**
Oxygen	O	8	8	8	320	290	30	22	9.38	6.88
Fluorine	F	9	10	9	382	340	42	33	10.99	8.64
Neon	Ne	10	10	10	400	360	40	30	10.00	7.50
Sodium	Na	11	12	11	462	418	44	33	9.52	7.14
Magnesium	Mg	12	12	12	480	432	48	36	10.00	7.50
Aluminum	Al	13	14	13	542	486	56	43	10.33	7.93
Silicon	Si	14	14	14	560	520	40	26	7.14	4.64
Phosphorus	P	15	16	15	622	558	64	49	10.29	7.88
Sulfur	S	16	16	16	640	576	64	48	10.00	7.50
Chlorine	Cl	17	18	17	702	639	63	46	8.97	6.55
Argon	Ar	18	22	18	808	714	94	76	11.63	9.41
Potassium	K	19	21	19	804	701	103	84	12.81	10.45
Calcium	Ca	20	20	20	800	720	80	60	10.00	7.50
Scandium	Sc	21	24	21	906	792	114	93	12.58	10.26
Titanium	Ti	22	26	22	968	864	104	82	10.74	8.47
Vanadium	V	23	28	23	1030	918	112	89	10.87	8.64
Chromium	Cr	24	28	24	1048	936	112	88	10.69	8.40
Manganese	Mn	25	30	25	1110	992	118	93	10.63	8.38
Iron	Fe	26	30	26	1128	1008	120	94	10.64	8.33
Cobalt	Co	27	31	27	1168	1036	132	105	11.30	8.99
Nickel	Ni	28	30	28	1164	1064	100	72	8.59	6.19
Copper	Cu	29	35	29	1292	1139	153	124	11.84	9.60
Germanium	Ge	32	41	32	1478	1300	178	146	12.04	9.88
Arsenic	As	33	42	33	1518	1350	168	135	11.07	8.89
Bromine	Br	35	45	35	1620	1439	181	146	11.17	9.01
Krypton	Kr	36	48	36	1704	1464	240	204	14.08	11.97
Rubidium	Rb	37	48	37	1722	1530	192	155	11.15	9.00
Strontium	Sr	38	50	38	1784	1568	216	178	12.11	9.98
Yttrium	Y	39	50	39	1802	1606	196	157	10.88	8.71
Zirconium	Zr	40	51	40	1842	1624	218	178	11.83	9.66
Niobium	Nb	41	52	41	1882	1719	163	122	8.66	6.48
Molybdenum	Mo	42	54	42	1944	1746	198	156	10.19	8.02
Technetium	Tc	43	55	43	1984	1802	182	139	9.17	7.01
Ruthenium	Ru	44	57	44	2046	1848	198	154	9.68	7.53

Description					A	B	C=A-B	D	E=C/A	F=D/A
Element	**Symbol**	**# Ps**	**# Ns**	**# Es**	**TDVP QUs**	**# Anu-s**	**# QUs - *Anu-s* difference**	**TDVP TQU (without Es) –Anu-s**	**3S-1t % difference with Es**	**3S-1t% difference without Es**
Rhodium	Rh	45	58	45	2086	1876	210	165	10.07	7.91
Palladium	Pd	46	60	46	2148	1904	244	198	11.36	9.22
Cadmium	Cd	48	64	48	2272	2016	256	208	11.27	9.15
Indium	In	49	66	49	2334	2052	282	233	12.08	9.98
Tin	Sn	50	69	50	2418	2124	294	244	12.16	10.09
Antimony	Sb	51	71	51	2480	2169	311	260	12.54	10.48
Tellurium	Te	52	76	52	2608	2223	385	333	14.76	12.77
Iodine	I	53	74	53	2582	2287	295	242	11.43	9.37
Xenon	Xe	54	77	54	2666	2298	368	314	13.80	11.78
Cesium	Cs	55	78	55	2706	2376	330	275	12.20	10.16
Barium	Ba	56	81	56	2790	2455	335	279	12.01	10.00
Lanthanum	La	57	82	57	2830	2482	348	291	12.30	10.28
Cerium	Ce	58	82	58	2848	2511	337	279	11.83	9.80
Praseodymium	Pr	59	82	59	2866	2527	339	280	11.83	9.77
Neodymium	Nd	60	84	60	2928	2575	353	293	12.06	10.01
Promethium (Illinium)	Pm	61	84	61	2946	2640	306	245	10.39	8.32
Samarium	Sm	62	88	62	3052	2794	258	196	8.45	6.42
Europium	Eu	63	89	63	3092	2843	249	186	8.05	6.02
Gadolinium	Gd	64	93	64	3198	2880	318	254	9.94	7.94
Terbium	Tb	65	94	65	3238	2916	322	257	9.94	7.94
Dysprosium	Dy	66	97	66	3322	2979	343	277	10.33	8.34
Holmium	Ho	67	98	67	3362	3004	358	291	10.65	8.66
Erbium	Er	68	99	68	3402	3029	373	305	10.96	8.97
Thulium	Tm	69	100	69	3442	3096	346	277	10.05	8.05
Ytterbium	Yb	70	103	70	3526	3131	395	325	11.20	9.22
Lutetium	Lu	71	104	71	3566	3171	395	324	11.08	9.09
Hafnium	Hf	72	106	72	3628	3211	417	345	11.49	9.51
Tantalum	Ta	73	108	73	3690	3279	411	338	11.14	9.16
Tungsten	W	74	110	74	3752	3299	453	379	12.07	10.10
Rhenium	Re	75	111	75	3792	3368	424	349	11.18	9.20
Iridium	Ir	77	115	77	3916	3458	458	381	11.70	9.73
Platinum	Pt	78	117	78	3978	3486	492	414	12.37	10.41
Gold	Au	79	118	79	4018	3546	472	393	11.75	9.78
Mercury	Hg	80	121	80	4102	3576	526	446	12.82	10.87

Description					A	B	C=A-B	D	E=C/A	F=D/A
Element	**Symbol**	**# Ps**	**# Ns**	**# Es**	**TDVP QUs**	**# Anu-s**	**# QUs - *Anu-s* difference**	**TDVP TQU (without Es) –Anu-s**	**3S-1t % difference with Es**	**3S-1t% difference without Es**
Thallium	Tl	81	123	81	4164	3678	486	405	11.67	9.73
Lead	Pb	82	125	82	4226	3727	499	417	11.81	9.87
Bismuth	Bi	83	126	83	4266	3753	513	430	12.03	10.08
Polonium	Po	84	125	84	4262	3789	473	389	11.10	9.13
Astatine	At	85	125	85	4280	3978	302	217	7.06	5.07
Radon (Emanation)	Rn	86	136	86	4540	3990	550	464	12.11	10.22
Francium	Fr	87	136	87	4558	4006	552	465	12.11	10.20
Radium	Ra	88	138	88	4620	4087	533	445	11.54	9.63
Actinium	Ac	89	138	89	4638	4140	498	409	10.74	8.82
Thorium	Th	90	142	90	4744	4187	557	467	11.74	9.84
Protactinium	Pa	91	140	91	4718	4227	491	400	10.41	8.48
Uranium	U	92	146	92	4868	4267	601	509	12.35	
Average % difference									***10.94%***	***8.80%***
ST DEV									***1.387***	***1.48***

Despite the 10.94% error without the electron correction, we show the original scoring based on 3S-1t framework observations to still be 100-10.94% and so 89.06 % in agreement. When we correct by deleting out the scoring with electrons not included, the agreement remains *unidirectional* at 100% - 8.8% and so 91.2% in agreement. In addition, and still very consistently, the results are just slightly off with almost all results, even when examined initially in this 3S-1t context. These are remarkable results but are still out by quite a distance and in the same direction each time. It implies that perhaps there might be something missing.

Neppe realized this was a major clue for the 10.94% and 8.8% error differences. There had to be a reason. *This was a major motivation for this paper—to establish if the differences could be adjusted by applying a multidimensional model and, also, recognizing the possible role of Consciousness at the dimensional ranges outside 3S-1t. Consciousness in TDVP appears contained (embedded) within the extra dimensions.*

In effect, Neppe then noted that this clairvoyance was reported *relative to 3S-1t*—it was in our physical world of length-breadth-height in a moment in time (Table 1A).

However, the Neppe-Close TDVP measurements are based on 9 dimensions, and they had also demonstrated that our finite reality exists in 9D, although we experience physical reality while alive in a waking state in just 3S-1t. (Table 1A). Those who experience meditation or other altered states of consciousness, may move to or though further dimensions.[109]

Solving the data puzzle: Moving to 9 dimensions in the Besant-Leadbeater puzzle: Chapter 5

Vernon M Neppe, Surendra Pokharna, Edward Close

Applying Anu-s to 91 elements (as discussed, Hydrogen as it was excluded because it does not have a neutron) in a 3-dimensional space with one point in time fabric as visualized (3S-1t) the mean is 10.94 and the standard deviation is 1.387; when removing electrons because Besant et al did not visualize electrons[1; 2], the mean is slightly less 8.80 and the standard deviation is slightly more 1.48.

We needed to explain this still small 8.8% variation empirically. Through trial and error, we looked at various math options, and we found that the 9.0% necessary trial-and-error correction increase produces an absolutely minuscule variation from the TDVP scores. (See Table 1B)

Can a correction variation adding a certain % to the anu score be justified? It can! In this paper, we provide a cogent explanation for this difference and corrects it by 9.0% found by trial and error, empirically, and justified by moving from a 3S-1t to a multidimensional model (which likely is consistent as it is a 9-dimensional model.). But there needed to be a correction factor to move to the multidimensional. This is so as TDVP is a model demonstrating 9 Dimensions and the comparison factor must be appropriate.

However, we did not know the correction factor. Consequent on the somewhat close data of the individual scores between the different Besant et al elements and the Quantal equivalent components of the Triadic Rotational Units of Equivalence, even in 3S-1t (knowing this because of the small standard deviations), a re-analysis was done recognizing multidimensional corrections were needed.
In TDVP, we hypothesize 9-dimensional models and given the data is supporting that, the multidimensionality is likely 9-Dimensional.

Dr. Neppe applied empirically tested (and well justified) trial and error and discovered the most suitable correction would be a 9.0% appropriate producing a Mean of 0.0080 and a Standard deviation of 0.0164 (astonishing figures). The % SD would, of course, be 100 fold more expressed as %.

It is ironic that after trial and error, when Neppe applied an exactly 9.0 % increase to correct the data, the data comparisons between Anu with 9.0% added and Triadic Rotational Units of Equivalence Quantum Units for nucleons (protons and neutrons alone) became very close. These results are reflected in Table 1B. The irony is the coincidental 9.0% increase, with the likely 9-dimensional fabric. The data appears to be very accurate in both Tables 1A and 1B. The Besant et al figures were published a century ago and since then numerous scientists and readers have had them available and they are therefore not subject to fraud. The TDVP data is easily calculated [15; 16; 17] and the TRUE data only became available initially in about 2015 [18; 19].

In Table 1B, the tabulated data results become remarkable applying the necessary multidimensional amplification, when the statistics then confirm that something very, very rare is occurring.

The mean results are now amazing: They're within 0.0080 mean with a standard deviation across all 91 scores of 0.016. This is excluding hydrogen-1 because this does not contain a neutron and should be an exception.

Table 1B. Quantum Units (Mass-energy) and the number of *Anu-s* observed through clairvoyance in atoms of 92 elements relative to multidimensionality (likely 9D) including electrons (Es) and excluding electrons. (91 plus Hydrogen) (TQUe= Total Quantal Equivalents without electrons)**.**

Description		A	B = A*1.09	C	D = C-B	E = final D/C using 9D	F=E*% Using 9D
Element	**Symbol**	**#Anu-s Original Besant data**	**9% ANUs Addition**	**# TQUe**	**TQUe - ANU*(1.09)**	**Normalized difference Anus - TQUe**	**Normalized as %**
Hydrogen	H	18	19.62	17	-2.62	**-0.1541**	**-15.4118**
Helium	He	72	78.48	78	-0.48	**-0.0062**	**-0.6154**
Lithium	Li	127	138.43	139	0.57	**0.0041**	**0.4101**
Beryllium	Be	164	178.76	178	-0.76	**-0.0043**	**-0.4270**
Boron	B	200	218	217	-1	**-0.0046**	**-0.4608**
Carbon	C	216	235.44	234	-1.44	**-0.0062**	**-0.6154**
Oxygen	O	290	316.1	312	-4.1	**-0.0131**	**-1.3141**
Fluorine	F	340	370.6	373	2.4	**0.0064**	**0.6434**
Neon	Ne	360	392.4	390	-2.4	**-0.0062**	**-0.6154**
Sodium	Na	418	455.62	451	-4.62	**-0.0102**	**-1.0244**
Magnesium	Mg	432	470.88	468	-2.88	**-0.0062**	**-0.6154**
Aluminum	Al	486	529.74	529	-0.74	**-0.0014**	**-0.1399**
Silicon	Si	520	566.8	546	-20.8	**-0.0381**	**-3.8095**
Phosphorus	P	558	608.22	607	-1.22	**-0.0020**	**-0.2010**

Description		A	B = A*1.09	C	D = C-B	E = final D/C using 9D	F=E*% Using 9D
Element	Symbol	#Anu-s Original Besant data	9% ANUs Addition	# TQUe	TQUe - ANU*(1.09)	Normalized difference Anus - TQUe	Normalized as %
Sulfur	S	576	627.84	624	-3.84	**-0.0062**	**-0.6154**
Chlorine	Cl	639	696.51	685	-11.51	**-0.0168**	**-1.6803**
Argon	Ar	714	778.26	790	11.74	**0.0149**	**1.4861**
Potassium	K	701	764.09	785	20.91	**0.0266**	**2.6637**
Calcium	Ca	720	784.8	780	-4.8	**-0.0062**	**-0.6154**
Scandium	Sc	792	863.28	885	21.72	**0.0245**	**2.4542**
Titanium	Ti	864	941.76	946	4.24	**0.0045**	**0.4482**
Vanadium	V	918	1000.62	1007	6.38	**0.0063**	**0.6336**
Chromium	Cr	936	1020.24	1024	3.76	**0.0037**	**0.3672**
Manganese	Mn	992	1081.28	1085	3.72	**0.0034**	**0.3429**
Iron	Fe	1008	1098.72	1102	3.28	**0.0030**	**0.2976**
Cobalt	Co	1036	1129.24	1141	11.76	**0.0103**	**1.0307**
Nickel	Ni	1064	1159.76	1136	-23.76	**-0.0209**	**-2.0915**
Copper	Cu	1139	1241.51	1263	21.49	**0.0170**	**1.7015**
Germanium	Ge	1300	1417	1446	29	**0.0201**	**2.0055**
Arsenic	As	1350	1471.5	1485	13.5	**0.0091**	**0.9091**
Bromine	Br	1439	1568.51	1585	16.49	**0.0104**	**1.0404**
Krypton	Kr	1464	1595.76	1668	72.24	**0.0433**	**4.3309**
Rubidium	Rb	1530	1667.7	1685	17.3	**0.0103**	**1.0267**
Strontium	Sr	1568	1709.12	1746	36.88	**0.0211**	**2.1123**
Yttrium	Y	1606	1750.54	1763	12.46	**0.0071**	**0.7067**
Zirconium	Zr	1624	1770.16	1802	31.84	**0.0177**	**1.7669**
Niobium	Nb	1719	1873.71	1841	-32.71	**-0.0178**	**-1.7768**
Molybdenum	Mo	1746	1903.14	1902	-1.14	**-0.0006**	**-0.0599**
Technetium	Tc	1802	1964.18	1941	-23.18	**-0.0119**	**-1.1942**
Ruthenium	Ru	1848	2014.32	2002	-12.32	**-0.0062**	**-0.6154**
Rhodium	Rh	1876	2044.84	2041	-3.84	**-0.0019**	**-0.1881**
Palladium	Pd	1904	2075.36	2102	26.64	**0.0127**	**1.2674**
Cadmium	Cd	2016	2197.44	2224	26.56	**0.0119**	**1.1942**
Indium	In	2052	2236.68	2285	48.32	**0.0211**	**2.1147**
Tin	Sn	2124	2315.16	2368	52.84	**0.0223**	**2.2314**
Antimony	Sb	2169	2364.21	2429	64.79	**0.0267**	**2.6674**
Tellurium	Te	2223	2423.07	2556	132.93	**0.0520**	**5.2007**
Iodine	I	2287	2492.83	2529	36.17	**0.0143**	**1.4302**
Xenon	Xe	2298	2504.82	2612	107.18	**0.0410**	**4.1034**
Cesium	Cs	2376	2589.84	2651	61.16	**0.0231**	**2.3071**
Barium	Ba	2455	2675.95	2734	58.05	**0.0212**	**2.1233**
Lanthanum	La	2482	2705.38	2773	67.62	**0.0244**	**2.4385**
Cerium	Ce	2511	2736.99	2790	53.01	**0.0190**	**1.9000**
Praseodymium	Pr	2527	2754.43	2807	52.57	**0.0187**	**1.8728**
Neodymium	Nd	2575	2806.75	2868	61.25	**0.0214**	**2.1356**

Description		A	B = A*1.09	C	D = C-B	E = final D/C using 9D	F=E*% Using 9D
Element	Symbol	#Anu-s Original Besant data	9% ANUs Addition	# TQUe	TQUe - ANU*(1.09)	Normalized difference Anus - TQUe	Normalized as %
Promethium (Illinium)	Pm	2640	2877.6	2885	7.4	0.0026	0.2565
Samarium	Sm	2794	3045.46	2990	-55.46	-0.0185	-1.8548
Europium	Eu	2843	3098.87	3029	-69.87	-0.0231	-2.3067
Gadolinium	Gd	2880	3139.2	3134	-5.2	-0.0017	-0.1659
Terbium	Tb	2916	3178.44	3173	-5.44	-0.0017	-0.1714
Dysprosium	Dy	2979	3247.11	3256	8.89	0.0027	0.2730
Holmium	Ho	3004	3274.36	3295	20.64	0.0063	0.6264
Erbium	Er	3029	3301.61	3334	32.39	0.0097	0.9715
Thulium	Tm	3096	3374.64	3373	-1.64	-0.0005	-0.0486
Ytterbium	Yb	3131	3412.79	3456	43.21	0.0125	1.2503
Lutetium	Lu	3171	3456.39	3495	38.61	0.0110	1.1047
Hafnium	Hf	3211	3499.99	3556	56.01	0.0158	1.5751
Tantalum	Ta	3279	3574.11	3617	42.89	0.0119	1.1858
Tungsten	W	3299	3595.91	3678	82.09	0.0223	2.2319
Rhenium	Re	3368	3671.12	3717	45.88	0.0123	1.2343
Iridium	Ir	3458	3769.22	3839	69.78	0.0182	1.8177
Platinum	Pt	3486	3799.74	3900	100.26	0.0257	2.5708
Gold	Au	3546	3865.14	3939	73.86	0.0188	1.8751
Mercury	Hg	3576	3897.84	4022	124.16	0.0309	3.0870
Thallium	Tl	3678	4009.02	4083	73.98	0.0181	1.8119
Lead	Pb	3727	4062.43	4144	81.57	0.0197	1.9684
Bismuth	Bi	3753	4090.77	4183	92.23	0.0220	2.2049
Polonium	Po	3789	4130.01	4178	47.99	0.0115	1.1486
Astatine (85)	At	3978	4336.02	4195	-141.02	-0.0336	-3.3616
Radon (Emanation)	Rn	3990	4349.1	4454	104.9	0.0236	2.3552
Francium	Fr	4006	4366.54	4471	104.46	0.0234	2.3364
Radium	Ra	4087	4454.83	4532	77.17	0.0170	1.7028
Actinium	Ac	4140	4512.6	4549	36.4	0.0080	0.8002
Thorium	Th	4187	4563.83	4654	90.17	0.0194	1.9375
Protactinium	Pa	4227	4607.43	4627	19.57	0.0042	0.4230
Uranium	U	4267	4651.03	4776	124.97	0.0262	2.6166
Average difference						*0.00801*	*0.8009 %*
Standard Dev						*0.01637*	*1.6374 %*
Sum of data			207592	210232			

These comparative results appear astonishing in closeness. It is scientifically almost incomprehensible that this data is so close. It also becomes the first non-controversial, incontrovertible data on 'quantal clairvoyance' (which could also be called 'quantal remote viewing'). Neppe comments that after 50+ years of parapsychological research and his studies, he has never seen any results close to this. Additionally, this justifies the TDVP paradigm as it provides an independent source of validation.

Effectively, the mean differences between Besant et al Anu-s and TRUE Quantal equivalents are tiny, just 0.0080 in mean, with a tiny standard deviation is 0.0164. The calculations in Tables 1A and 1B of the original data also list % scores.

Formal statistical analysis of to the Besant-Leadbeater data: Chapter 6

Vernon M Neppe, Surendra Pokharna, Edward Close

The statistical problem is: *"Can the 91 elements clustered together as a single calculation reflecting the difference between each element in Anu scores with the 9.0% correction and the Nucleon Quantal Equivalent scores in Triadic Rotational Units of Equivalence be treated as a single data point because the whole is reflecting all the data?"*

The 91elements have been treated as a single unit in these analyses. The whole difference is between corrected Anu-s and the Quantum Unit Nucleon calculations. *One cannot independently separate any of the 91 elements in the analysis.* This makes a great difference.

Clarifying more detail, on statistical analysis, it is difficult to statistically quantitate this data as it is seldom that scientific comparisons show little differences in two large populations performed in a natural science (physical-chemistry). The instance here is of the Elements of the Periodic Table where two independent groups of data must be treated statistically as a whole in the analysis of differences. A normal distribution can be assumed given the large number (91) of the elements and also because the elements are natural and likely normally distributed.

The null hypothesis (with $p >$ say 0.05) would be that there is no relationship between the Periodic Table Elements and the Besant Anu scores: What is the probability of these scores occurring by chance that the Besant et al and the QU values are entirely different. That null hypothesis would have been so prior to TDVP as the Anu scores looked like irrelevant 'junk' that had little meaning and a very limited relationship to the Atomic Mass or Atomic Numbers or numbers of nucleons in the Periodic Table of the Elements (technically there may have been some positive correlation but nothing comprehensible).

But with the discovery of TDVP TRUE quantum units, the results change dramatically. The alternative hypothesis question comes into play. How rare is this calculation in p? The two sets of data closely correlate.

Exact analyses are very complex because the data being analyzed is extremely unusual. Importantly, the sample size of 91 has a unifying interfacing aspect expressed as a score difference—the TDVP Quantum Units difference between the Anu-s score. This variance turns out to be miniscule once adjusting for multidimensionality. The mean and standard deviation difference calculations are straightforward. But finding the correct conversions to probability values is not easily directly available.

Therefore, the most logical statistical approach should be bivariate analysis that measures the strength of association between two variables and the direction of the relationship in parametric analyses. It seems the first task is to a parametric correlation coefficient. The data is distributed in size (91) and in natural data (Periodic Table) to warrant assuming a normal distribution.

The Pearson-r appears to be an appropriate test for such correlations in parametric data. Therefore, the Pearson-r correlation could and should be done and we have calculated the results.

For example, w*hen converting Pearson-r to a p value, these results are so rare that the maximum probability in tables is 1 in 100,000 against chance and this equals r= 0.45 when N=91. Our derived scores of R=0.9996 are so amazing that they need more far more than ordinary tables reflecting the more usual extremes. (e.g. https://www.socscistatistics.com/pvalues/pearsondistribution.aspx)*

The following formula was used to calculate the Pearson *r* correlation over the 91 elements and the other key components listed:

$$r = \frac{N \sum xy - \sum (x)(y)}{\sqrt{N \sum x^2 - \sum (x^2)][N \sum y^2 - \sum (y^2)]}}$$

r = Pearson-r correlation coefficient
N = number of observations. 91
∑xy = sum of the products of paired scores. 207591 * 210232
∑x = sum of x scores. 207591
∑y = sum of y scores 210232
$\sum x^2$= sum of squared x scores. 207591^2
$\sum y^2$= sum of squared y scores 210232^2

Data deriving from Table 1B: in the multidimensional model (applies 1.09 Anu-s)
Column E: Mean =0.0080
Column E: Standard Deviation =0.0164.
Column B Sum 207592 Anu 91 elements (= ∑x in the formula of Pearson-r).
Column C Sum 210232 TQUe nucleon 91 QU elements. (= ∑y in the Pearson-r)

Pearson-r (based on automatic Microsoft Excel calculation) **= 0.9996.**

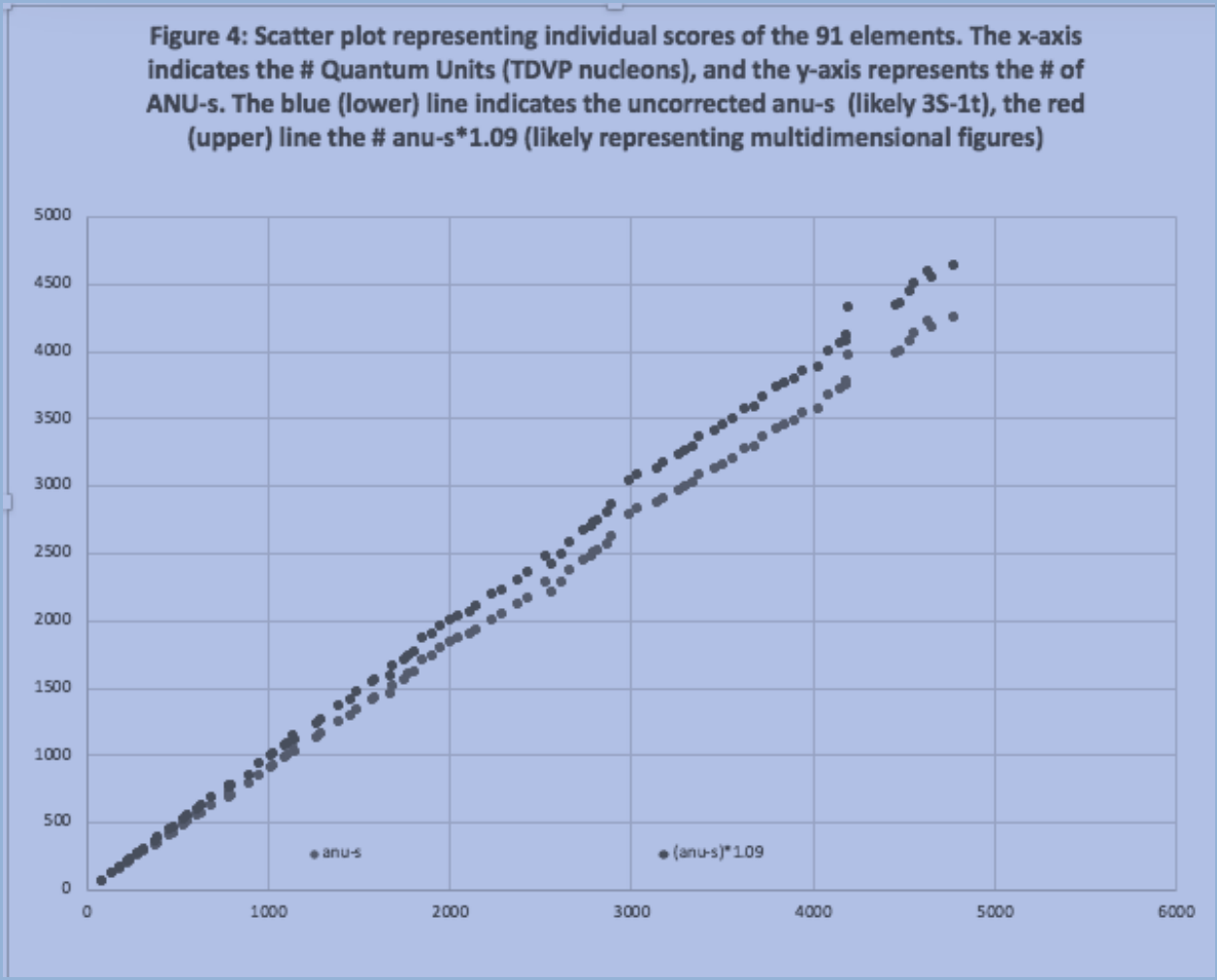
Interestingly, prior to this Pearson-r (Excel) calculation, Dr. Close originally obtained a 0.9993 Pearson correlation figure based on the lengthier calculation of γ. However, he was applying the 89 not 91 elements in the original Pokharna database [21], and not the direct Microsoft Excel derivation of Pearson-r based on the full 91. We had originally thought Besant was missing 2 of the 92 elements, and that our data set was complete hence the N=89 and hence our calculations were done on that basis. But we wanted to ensure that our database was complete and there had not been any missing data leading to inadvertent random selection.

Neppe rechecked the original Besant et al source, and we discovered that data on the remaining two elements (IN and TE) actually existed in the Besant database, but had been missed in Dr. Pokharna's original analysis. [21] Of course, Hydrogen could not be included in the Quantal Unit calculations because it lacked a neutron, but ironically the original Pokharna ideas were based on the similarities in Anu score of 18 for Hydrogen to its score of 18 including its electron.
These two Pearson scores (Excel at 0.9996 on all 91 elements and 0.9993 on 89 of the 91 elements) are so profoundly exponentially outside the normal range that, in practice, that they just reflect different levels of extremes in the extent of the variations from the normal distribution. This is another reason why we're listing differences such as one in 10^{-12} through to 10^{-18}.

Dr. Pokharna performed a tabulation which visually clarifies this data: To illustrate this, Pokharna plotted the number of Anu-s in each element on the y-axis * 1.09 (as the multidimensional measures) as well as without the 1.09 multiplier (which relates to possibly 3S-1t alone), with the number of Quantum Units of each nucleon (with no electrons) as the x-axis. As expected, this is an almost straight line, which correlates with the close 1 correlation. There are a few minor outliers and this can be observed given this is a plot of all 91 elements.

Figure 4 represents two scatter plots representing the data correlations. The first line is ordinal (without the 1.09 correction) and the second reflects the (additional

1.09) ordinal multidimensionality. The red and blue lines do not come out in this non-colored representation, but red is the top, and blue is the bottom graph.



The two scatter graphs are very similar but there is a subtle change between the two. Both are almost linear, as expected with the strong correlations, and the multidimensionality one (top graph) should correlate well with Pearson-r, as indicated. As expected, based on the Pearson correlation coefficient data, the 1.09 top red upper graph corresponds closely in scores to almost 1 as the x and y scores are almost equal.

The two graphs separate because the number of neutrons do not increase as linearly and consequently, the higher elements in the Periodic Table are more apart. The gap in the graphs in the right top side are due to a large difference between the number of neutrons in astatine and Radon. Astatine with atomic number of 85 has 125 neutrons with 4280 quantum units and 3978 anu-s. Radon with atomic number

86 has 136 neutrons with 4540 quantum units and has 3990 anu-s only. Such differences will require further investigations, and are not surprising given the variations we see from the data differences we describe under the Isotope analysis (Radon is at 2.35% —under our cutoff; Astatine is at -3.6%).

Table 2: Scores correlating extreme sigma values with 2-tailed proportions outside the curve (from https://en.wikipedia.org/wiki/Standard_deviation)

Confidence interval	Proportion within	Proportion without	
	Percentage	Percentage	Fraction 2 – tailed
0.318 639σ	25%	75%	3 / 4
0.674490σ	50%	50%	1 / 2
0.994458σ	68%	32%	1 / 3.125
1σ	68.2689492%	31.7310508%	1 / 3.1514872
1.281552σ	80%	20%	1 / 5
1.644854σ	90%	10%	1 / 10
1.959964σ	95%	5%	1 / 20
2σ	95.4499736%	4.5500264%	1 / 21.977895
2.575829σ	99%	1%	1 / 100
3σ	99.7300204%	0.2699796%	1 / 370.398
3.290527σ	99.9%	0.1%	1 / 1000
3.890592σ	99.99%	0.01%	1 / 10000
4σ	99.993666%	0.006334%	1 / 15787
4.417173σ	99.999%	0.001%	1 / 100000
4.5σ	99.9993204653751%	0.0006795346249%	1 / 147159.5358 3.4 / 1000000 (*on each side of mean*)
4.891638σ	99.9999%	0.0001%	1 / 1000000
5σ	99.9999426697%	0.0000573303%	1 / 1744278
5.326724σ	99.99999%	0.00001%	1 / 10000000
5.730729σ	99.999999%	0.000001%	1 / 100000000
6σ	99.9999998027%	0.0000001973%	1 / 506797346
6.109410σ	99.9999999%	0.0000001%	1 / 1000000000
6.466951σ	99.99999999%	0.00000001%	1 / 10000000000
6.806502σ	99.999999999%	0.000000001%	1 / 100000000000
7σ	99.9999999997440%	0.000000000256%	1 / 390,682,215,445

However, a new statistical problem arises: How do we calculate the probability (p value) for such an extreme value? By consulting Table 2, we can observe the rarity of events in terms of p value, but this is limited to 7 sigma data.

Which tables correlate the extreme Pearson-r scores with p value?

It turns out that probability values up to 1 in 100,000 are easy to locate on the Internet. However, that would be equivalent only to an R score of 0.45 with N=91. When dealing with 0.9996 on N=91 or even 0.9993 on N=89, we know we have even more exceptional data but we must quantitate that statistically at least to beyond 6 sigma (Table 2) because that has traditionally become the rarity figure for many tests in Consciousness Research or Psi or Parapsychological Research.

Establishing the rarity of this level of P-value with this almost 1 Pearson-r correlation requires special calculation because the data is not available on the Internet at these extreme levels.
It is clearly astronomically small, and the hyperbolic curve is skewed and likely exponential on graphing, and 12 places on our calculators are not enough.

When applying the formula for p, the apparently exponential extreme curve, increases as a function of Pearson's correlation coefficient, i.e., p(r,N) = r/sqrt[(1-r)sqrd/(N - 2)], where r=Pearson's correlation coefficient, and N is number of variants. By plotting p vs r, the p value appears to be $<10^{-12}$ and likely even < 1 in 10^{18} (<1 in the seldom even heard of quintillion).

How large is one quintillion? When one considers that so-called 'six sigma' results in parapsychological research have become a gold-standard for profound rarity, these results may be a billion times less common! We have not been able to locate any scientifically proven probability values of less than one in a quintillion.

How large in this instance are these numbers in practice? There are not too many comparable figures. It's has been argued that the earth is one in 700 quintillion planets[g]. Moreover, an analysis by Scripps Research scientists of distinct antibody-producing immune cells sampled from human volunteers (published on January 21, 2019 in *Nature)* suggests that the human antibody 'repertoire' may be capable of producing as many as one quintillion, distinct antibodies.[h] The statistical figure listings on the Internet, in our searches, appear to stop at a Standard Deviation (or

[g] (https://www.inverse.com/article/11893-science-says-earth-is-one-of-700-quintillion-planets-in-the-universe).
[h] https://www.scripps.edu/news-and-events/press-room/2019/20190123-burton-antibodies.html).

Z score) of 7.7 sigma. This is so rare that we don't even find figures beyond it on the Internet. (It just regards the result as 'infinity'!)

In practice, in Table 2, various statistics on rarity are listed. Some figures show Z sigma in the score of 7 is 1 in 390,682,215,445 —1 in 390 billion two-tailed against chance (this is the furthest out on the Internet we can find; Z scores reflect the extreme standard deviations away from the means and are therefore sigma scores.)

6 sigma (σ) = 1 in 506,797,346 so 1 in within(z) e.g. 6 σ *2 tailed results are at the is* 1 / 506,797,346; but one-tailed this is 1 in 1.01358 billion. This is where the term "6 sigma" or 6 σ comes from in parapsychology. These results are all calculated as one-tailed because they're in one direction (6-sigma is equivalent to six standard deviations away from the mean and reflect the probability of this finding being less than say 1 billion because it is one-tailed.

We provide further examples:
7 sigma 2 tailed is 1 / 390,682,215,445 but one tailed is 1 in 781.36 billion (double the rarity). But Table 2 ends at 7 sigma and theoretically we project.

When converted to probability scores, the Pearson-r statistic in this case is one-tailed. Clearly, these figures are even far rarer than the most profound extremes of Table 2. Projecting further graphically, the increases appear exponential, and our data should be about 1 in at least 100 trillion (1 in $1 * 10^{14}$) one-tailed , for example, if the Z score were 7.5 (this would be a low 'guesstimate' for the results). It may not be 7.5, it could be likely much more or possibly a little less, but this is just an example. We needed to project this data exponentially because the figures were so extreme that they were in unknown territory. These Besant analysis results have always been one-tailed since the initial analysis.

Explaining the Besant Anu and Quantum Unit Data: Chapter 7

Vernon M Neppe, Surendra Pokharna, Edward Close

Perspective

This database illustrates that Quantal (Remote Viewing) Clairvoyance appears to exist, as there is no other way to establish how closely these figures correlate with the Quantum Units of nucleons in the Neppe-Close TDVP (Triadic Dimensional Vortical Paradigm).

Furthermore, TDVP, then, is also further validated empirically (and had repeatedly previously been validated [15; 16; 17;18; 19; 25; 26; 27 27; 28; 30; 31]) and can be likely be applied as a model in other research. This work is not only Annie Besant et al proofs but illustrates once again the validity of the TRUE concept in TDVP.

The implications of the results of this research are huge. It would imply that through clairvoyance, Annie Besant, Charles W Leadbeater and C Jinrajdasa had actually perceived what they regarded as the smallest physical particles of matter, which by their description appear to be smaller than a collection of quarks (perhaps individual up-quarks or down-quarks would fit).

The data reflects quantum units and *anu* representing the most fundamental units of matter. Further findings, briefly mentioned only here, are that quarks appear to have some finer structure.

The Besant et al data is remarkable considering it was a century ago and involved analysis of all 92 of the elements that had been discovered where their atomic numbers were known and the atomic weights, but clearly very little else.[1; 2]

Certainly, since Close and Neppe described TRUE units (Triadic Rotational Units of Equivalence) in about 2015 [18; 19; 25; 27; 83; 139], such data was unavailable beforehand. It appeared that the data scores were almost unintelligible at that time. The Besant analysis went largely unknown for this period because it did not appear relevant.

However, today, based on the astute awareness of Surendra Pokharna et al[21], one can use quantum units compared with the Neppe-Close TDVP paradigm. Then with the addition of the multidimensional (9-dimensional) correction, the results then are statistically and in terms of intelligibility of data amongst the most remarkable: Not only can the Besant data from about a century ago be evaluated by anyone and it has been on many occasions; but the conversion to Quantal Units of nucleons using the TDVP TRUE integral derivations of quarks into protons and neutrons is simple mathematics and therefore indisputable. The key in this work is the integration of these two and the dramatic correlations.

Based on the original paper by Pokharna and Colleagues[21], the original analysis of the difference did not exclude electrons. After further review of the descriptions it required doing so, as they were not being observed and should not be in the analysis. This diminishes the difference from 10.94% to a 8.8% but that was still much too much to explain and could have been regarded as coincidental, though already it appeared unlikely because the data appeared all in the same direction, always less than the Triadic Rotational Units of Equivalence quantum units, and the result appears internally consistent with the TDVP Quantum Units.[21] The data even then (in apparent visualization through 3S-1t of Anu-s) appeared somewhat close, suggesting something else could be used as a correction factor.

Solving the mystery

However, the question comes up: why are these even very tiny variations when examined in 3S-1t and then adjusting to 9% addition? Initially, we thought this might be based on isotopes, but we are aware that Besant observed only one kind of element at a time so that though she may have observed an element on several occasions, the variation should be small. Analyzing the table, the atomic weights of elements as known today varies but it is still only a small proportion of the overall atomic weight difference. She or Leadbeater might have observed the same element on more than one occasion. We provide briefly four explanations:

a) The 9D model, by far the most likely;
b) Consciousness induction involving psychokinesis: could actual knowledge is structured in the consciousness. The Besant-Leadbeater explanation.
c) Isotopic variation which might play a minimal role in individual variations e.g. in 5 of the 91 elements analyzed; and
d) Misinterpretations of integral models being applied possibly due to the terms subquark by Stephen Phillips when today we might talk about up-quarks and down-quarks based on his diagram and we are now talking about quantum units of Anu-s.[14; 23]

- **1. Applying a 9-dimensonal model:**
  This model is empirically demonstrated here.
  Neppe, on re-examining this data, proposed the most logical explanation. The Besant / Leadbeater work was based on the framework of three dimensions of space and a single moment in time, and an analysis at that level. We know now, based on TDVP, that we are existing in a 9-dimensional finite reality. So one has to explain this 9-dimensionally. In addition, consciousness -- external, higher consciousness, possibly gimmel[19; 30; 89; 140; 141; 142; 143] particularly -- is not within that 4-dimensional reality as virtually none of consciousness is just brain consciousness: There is far more than 3S-1t which has very little C for consciousness.[144; 145; 146; 147] This means that such a factor as gimmel -- the third substance, which we know exists in everything, in every stable particle —has to be logical and linked up there.[25; 30; 148; 149; 150] The hypothesis would be that the elements of life, which contain more gimmel, may be more closely related. And this absolutely fits. TDVP is a remarkable model involving 9 dimensions, gimmel, the infinite continuity, and higher consciousness – where consciousness might be gimmel or gimmel might be its vehicle.[19; 26; 83; 89; 90; 91; 118; 127; 129; 139; 140; 141; 143]. This hypothesis is testable. One should be able to find a correction factor which would imply multidimensional consciousness such that the Standard Deviation (SD) and the Means of the 91 Elements should be almost exactly the same—e.g. within 0.05 for Mean and 1.0)(say) for SD. We would exclude the hydrogen analysis here as Hydrogen does not have a neutron, yet in 3 S-1t it dramatically corresponded at the start in Anu score of 18 with the Quantal unit score. We have tested this data empirically and found the data reflect even more remarkable correlations far, far closer: Mean = 0.0080 and SD = 0.0164.

  Based on the proper statistical analysis below, our results reflect possibly the most profound scores in all of psi research given their longevity, their initial rejection as junk and their reanalysis[131; 151] statistically. The results apparently far, far exceed the 6 sigma, (which approximates to 1 in a billion against chance when applying frequentist statistics) and cannot be easily accurately measure but it might be as rare as 1 in a billion-billion (10^{18})! This may be linked with the Besant consciousness techniques, too, as consciousness is fundamental at higher dimensions according to TDVP.

- **2. Conscious psychokinetic effects:**
  One could argue that possibly 8% variation relates to consciousness inducing some kind of psychokinetic effect of speeding up the observation

and getting a smaller component. This was how Besant and Leadbeater perceived the process so that the data could be better observed.[27; 30]

Consciousness then would be affecting change by psychokinetic methods (though at this point we cannot easily quantitate psychokinesis here or in psi research). There is data particularly in prayer on impacting change through consciousness with the work of Dossey and the unusual Leibovici retrospective study being uppermost[152; 153; 154; 155; 156; 157; 158; 159] and a fundamental part of the calculus of distinctions[78; 79; 160] that Close-Neppe use in TDVP are the distinction of impact[109]. So there is empirical support for consciousness playing a role, but this may be in the context of the 9D TDVP model that includes extended higher consciousness that is not in 3S-t. However, the Besant et al analyses were from the *framework of 3S-1t observations though it might have been in higher dimensions*.

In summary, in the Neppe-Close model, there are possibly 3 dimensions of consciousness (not fully proven but some mathematical support), and these 3 are certainly located outside the 3S-1t domain (with possibly some slight intrusion). This means that the 9% variation can be explained by TRUE TDVP but it does not exclude Consciousness as having a major role. [15; 65; 67; 68; 104; 109, Neppe, 2011 #125; 118; 145; 146; 147; 161]

In the TDVP model, information and or knowledge is structured in the consciousness: The knowledge about *anu*, number of *anu-s* in atoms of elements is already there in the consciousness. What Annie Besant and her coworkers have "seen" through the clairvoyance is actually the realization of this knowledge. This is a different system of acquiring the knowledge as compared to the modern scientific approach of reductionism which divides the object from the observer. In the spiritual approach, this difference between the observer and the object seems to disappear. The spiritual approach talks of an inbuilt interconnectivity of all subsystems in the Universe at all levels starting from smallest possible physical levels (and even beyond them) to the highest cosmological levels and the human consciousness and consciousness of all sentient beings.

Hence, the Besant model and TDVP model might lead to major reformulations of the classical physics 3S-1t paradigm: It is proven now that reductionist materialism involving only 3S-1t is refuted. It is proven now that some kind of extrasensory perception in the form of Quantal Remote Viewing exist and that introduces a whole new formulation of reality. And, of course, following on

several other demonstrations, we know that Triadic Dimensional Vortical Paradigm in the context of Triadic Rotational Units of Equivalence is proven and this provides further justification of it because TRUE quantum units of nucleons are mathematically demonstrated to correlate almost as perfectly as it could with the Quantal Remote Viewing of Besant and colleagues.

This research also has implications beyond the sciences including in philosophy where applying some Indian philosophies like Jainism and Theosophical thought requires rethinking as the Besant techniques were in general linked with these modes of altered states of awareness.

- **3. Isotopes:**
  We could justifiably propose that the number of stable isotopes (generally of larger atomic weight than the original atomic mass of the predominant element) and their size difference could explain *small* variations in individual scores.[162] This is so as Besant et al could be 'viewing' at times stable, extended half-life variants of the main elements and this might explain even the tiny variations in corrected anu scores from the TDVP TRUE QU nucleon scores: In Table 1B with the 9.0% correction, these are slight differences in the 6 more extreme elements but two are negative and four positive suggesting that the 9.0% may be the closest approximation one could get to—but this is outlier data and what is more cogent are the profound overall statistics.

  Indeed, only a very rare element Tellurium (5.2%) with Xenon (4.1%), Silicon (-3.80%), and a largely unused element, Astatine (-3.66%) have the largest variation of scores. Uranium (2.66%) and Potassium (2.67%) are barely over an arbitrary 2.5% limit (1 in forty range). It is interesting that these have stable isotopes with larger atomic weight differences. But we don't think that isotopes are playing a major role as these figures are very small differences. Combining even these differences amongst the 6, the average difference is 1.2223%—a irrelevant aside. These reflect very small range outliers and we propose as an aside that these results might reflect on isotopes that are stable, have long half-lives and more frequent occurrence (which should correlate positively with half-life) for each element.

  Examining the isotope hypothesis, there are six elements of 91 outside the 2.5% range and one of them is most distant at 5.2%. 4 are positively different with TDVP Quantal Units without electrons more, and 2 are negative with the adjusted 9% extra on Anu higher. *Tellurium* (Te, 52) is a very rare element but

at 5.20% has far the most variation in difference from all the elements Besant et al examined (and those were all that were available a century ago.

Interestingly, these figures are reflected by the atomic weights, with the more stable isotopic variations relating to atomic weight. Besant could conceivably occasionally have been looking at the more common, more stable isotopes, as well. Whereas this might explain minor 0.2% or 0.5% variations for those elements, they are not relevant to the whole with the 9% adjustment on 89 elements. We do not regard isotopes as anything but 'noise' in the tiny fluctuations we see.

- *Tellurium (Te, 52)* There are 39 known isotopes and 17 nuclear isomers of tellurium (52Te), with atomic masses that range from 104 to 142. Of these, there are 8 stable isotopes and four are used in medical research. 129Te has a half-life that is the longest namely 33.6 days.
- *Xenon* (Xe, 54) at 4.1034%, has seven stable *isotopes* and two very long-lived *isotopes*;
- *Silicon* (Si, 14) with a negative -3.8095% difference, has 23 known *isotopes*, with mass numbers ranging from 22 to 44.[14] Si (the most abundant *isotope*, at 92.23%), ^{29}Si (4.67%), and ^{30}Si (3.1%) are stable. The longest-lived radioisotope is ^{32}Si, which is produced by cosmic ray spallation of argon.
- *Astatine* (At, 85) with -3.3616% difference has 31 different isotopes and at least 3 with half-lives of 5.4, 7.2 and 8.1 hours.
- *Uranium* (U, 92) is the most naturally occurring stable element of U. This shows a 2.6116% difference. Uranium is composed of three major *isotopes*, *uranium*-238 (99.2739–99.2752% natural abundance), *uranium*-235 (0.7198–0.7202%), and *uranium*-234 (0.0050–0.0059%) but Plutonium 239 and Radon 222 are well known. Uranium has some 15 isotopes and family members linked with ^{99}Tegnetium as in magnetic resonance contrasts though it is clearly a different isotope though classified as similar.
- Finally, *Potassium* (19, *K*) at 2.667% difference, has 25 known *isotopes* from ^{33}K to ^{57}K, with unconfirmed detection of ^{59}K. Three *isotopes* occur naturally: stable ^{39}K (93.3%) and ^{41}K(6.7%).

We contrast this, examining some elements have little variation (<0.006). In essence, in face value analysis, it appears there would have been far fewer stable long-life isotopic choices for Besant et al to 'clairvoyantly' have perceived.

- For example, although there are nine known *isotopes of Helium* (2He) only Helium-3 (^{3}He) and Helium-4 (^{4}He) are stable;
- *Beryllium* (^{4}Be) has 12 known *isotopes*, but only one of these *isotopes* (^{9}Be) is stable and a primordial nuclide;
- Lithium (at 0.04) with 8 isotopes has only naturally occurring *Lithium* (^{3}Li) and is composed of two stable isotopes, Lithium-6 and Lithium-7, with the latter being far more abundant: about 92.5 percent of the atoms.
- Aluminum at 0.001 variation: *Aluminium* or *aluminum* (^{13}Al) has 22 known *isotopes* from ^{22}Al to ^{43}Al and 4 known isomers. Only ^{27}Al (stable *isotope*) and ^{26}Al (radioactive *isotope*, $t_{1/2} = 7.2 \times 10^{5}$ y) occur naturally, however , ^{27}Al has a natural abundance of >99.9% and finally protactinium with 28 isotopes only has the three naturally occurring *isotopes* allow a standard atomic weight to be given.
- Twenty-nine *radioisotopes of protactinium* have been characterized, with the most stable being ^{231}Pa with a half-life of 32,760 years, ^{233}Pa with a half-life of 26.967 days, and ^{230}Pa with a half-life of 17.4 days.

This data may support the isotope hypothesis for the small variations but does not explain the need for the large 9.0% adaptation (e.g., the isotope hypothesis might at the extremes explain variations of 0.1% but not 9.0%).

- **4. Quanta problems:**
  Given that the data being analyzed is quantized, it may be possible that the exactness of the quantum units may not appear quantal, and possibly this explains any differences. But the extent of difference does not explain what is being measured. Moreover, we believe this not to be correct, as it doesn't work empirically and mathematically in TDVP because quantized information is quantized and also the Close-Neppe original estimates were very close [31; 78; 79; 160; 163] to integral figures. [25]

  Quark mass has some standard error scores (very low) when even measured in the Large Hadron Collider and we regard our quantized TDVP data to be more accurate based on our demonstrable empirical successes in the quantal, macroreality and cosmological reality.[27; 30]

  The largest integral change in the TDVP TRUE model is with the down-quark where 9.37 converts to 9. Neppe and Close empirically had to establish if these

figures were correct, but after working with them in many contexts for several years that conversion empirically appears correct. Without it and the associated gimmel [26; 89; 91; 118; 140; 141; 164] —the massless, energyless third substance that is necessarily in union with every single stable particle) atoms would simply fly away. [25; 73]

We regard the integral data is likely correct and this is demonstrated by Planckian[75; 165] quanta. Table 3 shows how Quark scores reflecting the integral aspects are relevant when normalized.[27; 28; 30; 31] Additionally, the clairvoyant Besant data is not just compared with an operational mathematical score. This is so because TDVP scores are linked *exactly*, after normalization, to the Large Hadron Collider rest mass—energy equivalent scores of protons, neutrons, and electrons. Protons are 1836, neutrons are 1839, and electrons are 1 on both systems.[27; 30]

Therefore, if demonstrated, as we do in this paper, this makes the Besant data empirically useful, not just a math exercise. Of course, it further reinforces TDVP, too.

In essence, the reason for the 9.0% correction being so precise is likely based on adjusting to a 9-dimensional perspective, including the key dimensions of consciousness. The specific 9.0% correction figure appears coincidental and unrelated to the 9-dimensional model. Nevertheless, six individual elements varied, though only slightly, in their results from the other elements. Though these variations are small (only 6 of the 91 elements even show a slight difference and that is between 2.5% and 5.2%). The differences could possibly be explained by stable long-life common isotopes that might have appeared during several 'clairvoyant' readings of the same element. Of these elements, two varied negatively (silicon at -3.8% and astatine at -3.36%) and four positively (tellurium at 5.2%, xenon at 4.1%; potassium at 2.66%; and uranium 92 at 2.6%). This suggests that 9.0% may be the closest approximation one could get to, as three element results are slightly too high and two are slightly too low. Another alternative explanation pertaining to the results not being quantal is discounted.

Non-integer estimates, however, are almost certainly incorrect, as everything in TDVP is quantized, and TDVP results have already been empirically demonstrated: TRUE calculations and exactly equal to the normalized LHC data with electrons as 1, protons as 1836 and neutrons as 1839.[27; 28; 30]. Effectively, the Mass-energy equivalence of normalized data in the CERN Large Hadron Collider demonstrates empirically and definitively that Triadic Rotational Units of Equivalence were correct.

These results reflect some remarkable data after analyzing the implications. TDVP allows for unification of the laws of nature, such that there is not *'quantum weirdness'* Nobelist Feynman described[166]. We perceive 3S-1t like a flat earth: this reflects the prototype common physicist training of the unawareness of the fact that we are dealing with quantum components that are more than 3S-1t; *and using 9D from a quantal point of view, the 50 contradictions and conundrums at a quantal level are explained in TDVP.* Moreover, *in TDVP, the same laws apply to the quantal, macro world and the cosmological world. And now with the Besant work re-recognized by Dr. Pokharna [21; 22], this extends to the psi world which some refer to as non-locality, but which we recognize is multidimensional reality and the infinite.* [63; 93; 94; 95; 96; 104; 121; 124; 167]

Speculations that have been applied previously to other data

The 9% addition so profoundly reflects close results demonstrating the closeness of TDVP quantal nucleons (neutron plus protons) to the Besant data that it now appears that quantal clairvoyance is real whereas before this discovery the quantal clairvoyance results would have been without much empirical validation.

On the other hand, again the model of Triadic Dimensional Vortical Paradigm is proven based on empirical data. This would have been controversial empirical data, but the Besant et al work is now fraud-proof and statistically overwhelming. We can no longer disrespect psi research. This particular mechanism, 'Clairvoyant Remote Viewing' previously undescribed is now scientifically proven in the strongest possible terms.

The newest of the 10 psi protocols: Introducing Quantum Remote Viewing Clairvoyance: Chapter 8

Vernon M Neppe, Surendra Pokharna, Edward Close

There is solid scientific data[131; 151; 168; 169] supporting the existence of psi phenomena.[131; 170, 171; 172; 173; 174]. There are 10 now that exceed 6 sigma (about 1 in a billion) of these the first six are more known and widely accepted.[175] Neppe has argued for their being nine protocols for many years.[176]

In Figure 5, we list the nine different areas of psi research that reflect statistical probabilities against chance of 1 billion to one ('six sigma' data)[131; 151; 169]. However, in this paper, we describe this unique subtype phenomenon, what one of the authors Neppe is now calling 'quantal clairvoyance'[177]. So this would make a tenth area of 6 sigma psi, what Neppe is now calling 'quantal clairvoyance'. This then is a tenth protocol namely, *Quantal clairvoyance (quantal remote viewing).*[131; 151]

Figure 5: The Now Ten Six Sigma Protocols in Parapsychology

1.) RV: Remote viewing
2) REG: Random event generator
3.) Ganzfeld
4.) GCP: Global consciousness project
5.) Presentiment
6.) Backward precognition (Bem protocol)

7.) Survival
8.) Staring protocol
9.) Precognition
10) Quantal clairvoyance (quantal remote viewing)

The Neppe-Close model Triadic Dimensional-Distinction Vortical Paradigm (TDVP)[109] has been recognized as the recently developed 'Universal Model Integrating Matter, Mind and Consciousness'[21], in which this 'Theory of Everything' is described in their book '*Reality Begins with Consciousness: A*

paradigm shift that works' [109]. This is important here because the Besant data described in this paper is almost completely correlated with this TDVP work.
To clarify Neppe and Close have shown that TDVP is mathematically-proven and when you apply their mathematically proven 9-dimensional quantized finite reality with gimmel as the extra third substance, everything including quantum weirdness fits into place. The 50 odd dilemmas that cannot be explained by Quantum Physics all disappear. They point out that this is not a speculation as it is empirically demonstrated: TRUE calculations are exactly equal to the normalized LHC data with electrons as 1, protons as 1836 and neutrons as 1839.[30]

The TDVP paradigm unifies the Laws of Nature: It solves not only the problems of 'quantum weirdness', of why the Life Elements are different, of how gimmel fits into Dark Matter and Dark Energy, of survival after death and ordropy (conservation of consciousness in the infinite continuity) and of meaningful evolution. This involves a single explanation, leading to the Laws of Nature being unified and a consequent *philosophical* model of Unified Monism being proposed based on the *science.* And the science behind it is frequently mathematics.[178; 179].

TDVP does not just use mathematical 'operations' because of the data relating to the Mass-energy equivalence normalized data in the CERN Large Hadron Collider.[30] All of this changes the whole: 4D experience is different from 9D finite with infinite existence. The puzzle analogy is a good one. We must fit all the pieces that we can do, not just 3S-1t. These results, therefore, are critically relevant now to the Besant Quantal Clairvoyance data discussed here because they then show not only correlations but relevance to empirical and mathematical truths. And most scientists practice 4D science not 9D science.[180]

Neppe and Close point out that a complete theory of everything (TOE) must include all branches of knowledge which attempts to look for the Truth or the ultimate reality from various perspectives.[104] A main highlight of Triadic Dimensional Vortical Paradigm is that consciousness is as important as space, time, matter and energy.
In Triadic Dimensional Vortical Paradigm, vortices are treated as another important aspect of reality. Extra measurable dimensions, sometimes ordinal in nature, are key. TDVP also recognizes that ultimate finite reality is discrete and contained within a continuous infinite.[18; 19; 25; 26; 27] The Quantal Clairvoyance requiring apparent multidimensionality (we cannot prove 9 specific dimensions but TDVP suggests it) adds to the picture as *Consciousness is more likely in dimensions 5 to 9* (e.g. 3 dimensional domain of 7-9) and so it also supports TDVP.

This relationship of higher dimensions with Consciousness appears to be very important and could account for the Besant et al visualizations by clairvoyance. Thus the multidimensional models with the 9% correction in Quantal Clairvoyance of Besant et al, might be fundamentally an application of appreciating information at different dimensional domains as in the TDVP 9 dimensional domain. We've already proposed an extended (higher) Consciousness. [68; 147; 181]

All these may be pertinent in the Besant work because their counted data is discrete, and finite and 'visualized' *relative to the framework* of 3 dimensions of space in a moment in time (3S-1t). However, for legitimate comparisons with Triadic Dimensional Vortical Paradigm to be made, and also applying the likely finite reality, these should be in 9-dimensional descriptions. It's a reciprocal reinforcement! Quantal remote viewing clairvoyance (QRV) may be a critical mechanism for understanding TDVP, and TDVP may be a logical way to appreciate the mechanism by which QRV works.

TDVP model and definition of quantum units

In the TDVP model[15; 16; 17], finite nature is regarded as discrete and quantized at the fundamental level. Moreover, in Triadic Dimensional Vortical Paradigm, the infinite is a continuity and impinges the finite not only from the outside but at all levels including the so-called 'sub-quark'[72; 182] (which likely does not exist, certainly, up till now). There is no data and the basis of dividing up an integral quantum contradicts TDVP and yet TDVP is mathematically and empirically proven.[27; 28; 30; 31; 183]

On the other hand, below the level of the 'subquark', some would conceptualize 'gimmel'.[91; 140; 141] More appropriately, 'gimmel' [89; 90; 91], which in TDVP[15; 16; 17] likely reflects consciousness or its vehicle is not subquark or subquantal. Instead, we postulate, based on our scientific discoveries[15; 16; 17], that gimmel is in union with every stable particle. We argue that what we might regard as the 'subquantal' is not subquantal in physical location, but gimmel could reflect rotational movement as part of the vortices in 9-dimensional structures, and might have a relevance to infinite continuity being everywhere[25; 87; 98; 100; 101]. These are deep concepts, and discussed elsewhere.[91; 140; 141] Observations by Besant and her co-workers of anu-s or of equivalent particles were likely relative to the 3S-1t environment, and still would have limitations. We need not make everything observed in 3S-1t like anu-s into particles, particularly as vortical rotations may change the whole fabric of what we regard as particles or particulate as in the TDVP model.

Could it be that other models better account for the Besant data than TDVP does? We do not think so. However, one example would be the Quantum Field theories (QFTs),[7; 184; 185] which involve three dimensional space in one time moment (the present) (3S-1t) but which were still discussed by Pokharna [21; 22] in his original 3S-1t paper comparing the Besant data with TDVP. In QFT fields are more fundamental and they are expressed (mathematically) as collections of virtual particles which are not directly observable. They were created this way to resolve the theoretical contradictions that emerged from assuming a continuous field in the subatomic realm, though QFTs do assume continuous space and time. But that does not work when applying the discrete nature of reality[109] including the Besant data, particularly as one is dealing with a 9-dimensional comparison.[1; 2].

Effectively, evaluation of data must not just be theoretical such as in the String and Superstring Theories where there is no proven data—hence they are called 'theories'[126]. Again we emphasize, TDVP is not a theory; it is a science based on validated mathematics and empirical equivalents even with the Mass-energy equivalence normalized data in the CERN Large Hadron Collider.[27; 30] Moreover, not everything Besant et al perceived should be interpreted at face value: Just because they drew (two-dimensional) diagrams showing (what might be multidimensional) strings doesn't mean it equals the string-like phenomena of the String Theories. This point is made because physicist Stephen Phillips[14] , to his great credit, recognized in 1995 that the Besant Quantal Clairvoyance might be multidimensional and the only available application of multidimensionality at that time were the String Theories. There were certain commonalities (such as the diagram e.g. Figure 2, reflecting possibly ten whorls) but contradictions too, as the whorls appear to be vortical: In effect ,vortices do not work in String Theories, but vortices based on the diagrams may, speculatively, be circular 'strings.'

The claims made by Annie Besant and her coworkers are that they have seen basic constituents of matter that are parts of quarks through (quantal) clairvoyance [1; 2]. The data appears to be overwhelming. They argued they were applying *anima siddhi* to the 91 fundamental elements of chemistry that were available at the time.

The (3S-1t initial) average percentage error of 10.94% found between the number of *anu* and the corresponding number of quantum units for 91 elements of the Periodic Table (as in Table 1A) strongly suggest that clairvoyance is a hard reality and the term coined as 'micro-psi'[14; 23] must be further investigated by scientists with an open mind. When the 9% correction plus removal of electrons are applied,

results like 1 in a trillion or higher against chance make the data factual and quantal clairvoyance / remote viewing proven!

As an aside as it's not discussed here, this study also strongly supports the age old concept of Jainism and Hinduism that knowledge is structured in the consciousness.[22; 24] In Jainism, clairvoyance involves knowledge directly perceived by the human 'soul' and it does not require any sense organs or mind. It is not bound by the limitations of space and time and has innumerable varieties. [22; 43; 186]

Key Summation to the Besant-Leadbeater-Neppe-Close TDVP correlation: Chapter 9

Vernon M Neppe, Surendra Pokharna, Edward Close

With the 9.0% correction and transition to multidimensionality (likely 9 dimensions but not proven in this paper), this article, with respect, becomes a major landmark. This analysis establishes the importance of consciousness, in this context psi, in potentially impacting reality.

Effectively, we argue that the Besant et al data can profoundly alter the world-view of materialists who regard everything in existence as products of the classical senses[1; 2]. Not only does the Besant et al data powerfully argue against that product being the only way we can rationally handle data[1; 2], but it demonstrates the need for added dimensions to validate some data, and particularly the Triadic Rotational Units of Equivalence (TRUE) findings in Triadic Dimensional Vortical Paradigm (TDVP) [18; 19; 25; 27; 83; 139].

These results are particularly cogent because the findings of TRUE in TDVP have been demonstrated not only by mathematical operations where ultimately there appears to be a unification of reality (the quantal, macroworld, and cosmological universe all obey the same rules), but an empirical validation of TRUE by its definitive demonstration of the exact same normalized figures for the basic demonstrable particles (protons, electrons, neutrons)[30] in the Large Hadron Collider correlations. This list also includes numerous other empirical demonstrations based on data that already exists such as the Dark Matter and Dark Energy data[90; 187] and mathematical demonstrations such as the existence of 9-dimensions[32; 112; 113; 114; 164; 188; 189, Neppe, 2015 #1485] and of gimmel[26; 89; 140; 141], and the equations of life elements[25]. TDVP and in this instance TRUE *has been proven* yet again.

The statistical analysis of the Annie Besant quantal remote clairvoyance data from a century ago is so definitive in its multidimensional correlation with Triadic Rotational Units of Equivalence (TRUE) of Triadic Dimensional Vortical Paradigm (TDVP) Quantum Units (of protons and neutrons) that it appears more statistically significant than any other study in the vast history of parapsychology. The statistics appear definitive: The Pearson R correlation coefficient, a parametric test comparing Quantum units in TRUE with the Anu-score (after

multidimensional correction) is almost unity at 0.9996. This kind of correlational figure possibly cannot be directly converted to a p value as it's so small and the statistics appear to run out of scores beyond one in a trillion or so! It could be e.g., one in 10^{-12} or even 10^{-18}. Of course, at that level, such figures are so small that their exactness becomes irrelevant. Some prior studies have had remarkable statistical scores against chance, with 9 in psi being 6-sigma (roughly one in a billion against chance). Of these the staring studies statistically were in the trillions[190; 191], and the Bem data[192; 193; 194; 195] appears to be in the tens of billions.

However, statistically the Besant et al data [1]when compared with the Quantum Unit data of Triadic Rotational Units of Equivalence appears more powerful than any other ever reported about the statistics on *psi.* A correlation of 0.9996 over 91 elements is astonishing. This suggesting likely one in a billion-billion probability result. If the now 10 areas of data on different kinds of psi (adding to the previous 9 [131; 151]) reflect an underlying common thread, the Besant correlations in this paper adds to the overwhelming data that psi is definitely a phenomenon that exists, and likely has some kind of common mechanism.

Even more importantly, the data that distinguishes this study from all others in psi research might be that taking into account that this data was published a century ago, *fraud can be ruled out*. The other six-sigma studies were outstanding in methodology[131; 151], and certainly the research and researchers made them as leak-proof against other confounders as they could. But the trope that is always sung by pseudo-skeptics when all others fail is *'It must be fraud.'* In the Besant data, the information was published and available with the exact data up to a century before it was even regarded as relevant (until the TDVP derivations were published during this decade[109; 117; 170; 176; 196; 197; 198; 199; 200; 201; 202], the Besant data would have been regarded as inconceivable. This is because it did not match up with any known parameters, though physicist Phillips[14; 23] and creative author Murphy [97; 98] had certainly put up excellent ideas without the correlative material. Some psi studies have suffered from inappropriate attempts at discrediting. This Besant—TRUE data cannot. TRUE calculations can be repeated by anyone, and the published scores of Besant et al available for everyone to see for the past century.

As a consequence, *this specific result makes the Besant Anu—TDVP TRUE quantum unit data now proven*. Moreover, the Besant et al results add to the already accumulated list that the TDVP and TRUE models are proven. Moreover, the Besant data [1; 2] reflect the spin-off of such information, and philosophically and scientifically refute the prevailing 3S-1t worldview that is prevalent in materialism.

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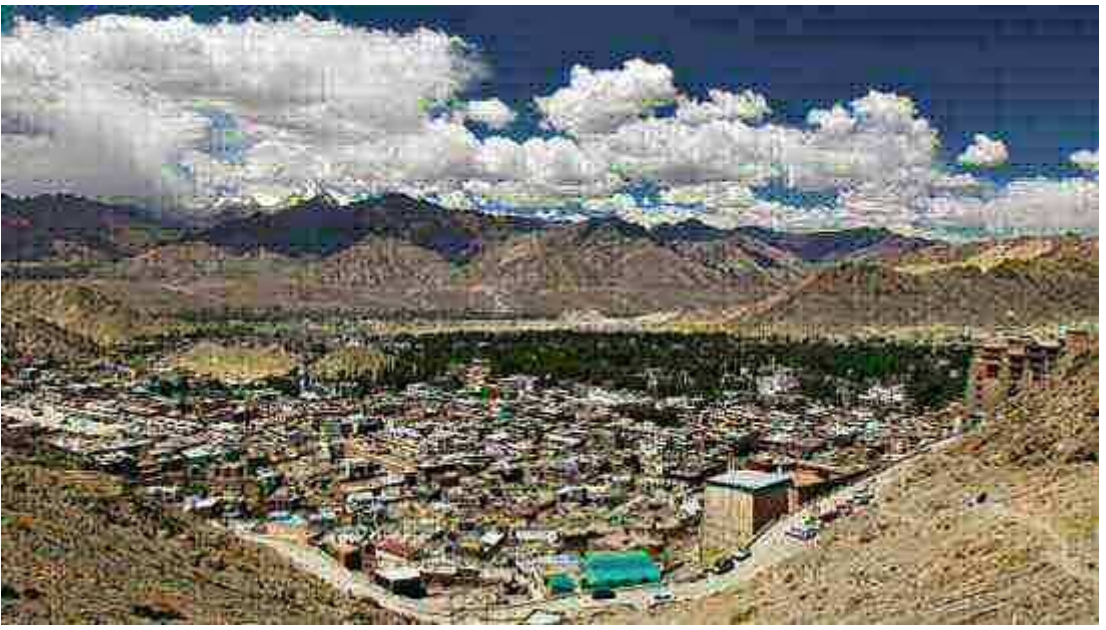
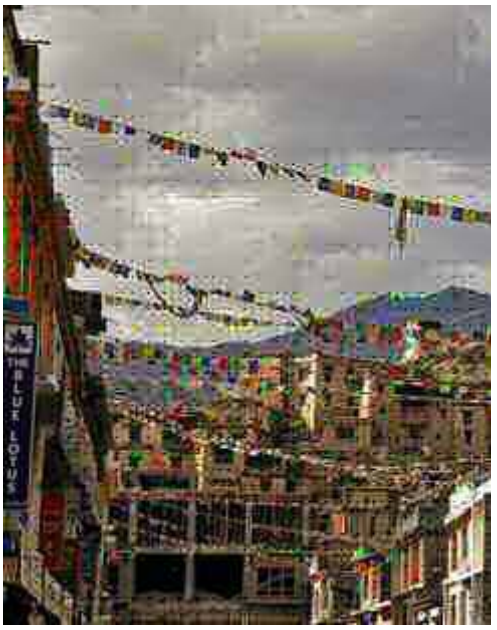
Ladakh

Mirror image of Tibet

Mountain wilderness surrounded by 6k peaks - and this still may seem romantic in Nubra Valley



High above the Leh



The main Leh's road dominated by Royal Palace

Text a photo by Jaromír Červenka;
Interpretation by Stanislav Riha; UK English editor, Jacqueline Slade;

Who amongst those who are passionate about travel would not, at least once in a lifetime, be tempted to visit an exotic place like Ladakh? The country, dotted with Buddhist monasteries and often dubbed Little Tibet for its ideological and geographical affinity, is officially part of the northernmost state of India, Jammu, and Kashmir, but it is a completely different world in terms of population composition.

A large portion of the 240,000 local residents speak Ladákh and are Tibetan Buddhists.

The population here is sparse - an average of just three people per square kilometer. The territory of Ladakh lies in the foothills of the majestic Himalayas and Karakoram massifs between Tibet (China) and Pakistan.

Due to the amount of snow accumulated in the passes, it can be visited for only up to five months a year. It is actually an alpine desert with ridges spanning up to six thousand meters, enriched in the valleys around the rivers Indus, Zanskar, and Shyok by lush greenery. Throughout its history, Ladakh has always remained an integral part of the Silk Road. However, after the closing of the Chinese border (1949), it found itself practically "in

The visibly materialized power of thought...

Prayer wheels have hundreds of different forms in the Buddhist world

oblivio." This has changed with the coming of the new millennium.

On the axis of Sonamarg - Lamayuru – Léh

Through the passage of the mountain village of Sonamarg, we leave the space of Kashmir to wind up and climb the highway, to the saddle of Zoji La. After that – following the course of the river - our car heads right along the Pakistani border to Drass, the coldest point of India. Next is the Kargil, the most northeastern outpost where the majority of the people follow Islam. But from here it all changes.

The Mosque world alternates with the curtains of the prayer flags, sending their mantra to all corners of our planet. The small town of Lamayuru welcomes us with a three-day religious festival. The monastery is one of the oldest in the area, dating back to the 11th century. The vast gompa has countless hidden corners. The walls of the mani, are complemented by rows of prayer wheels, open sheds, and flat roofs. Here the cheerful young monks run and playfully cry out their 'Jule-julej', and the dark spaces of the halls invite meditation - all this is Lamayuru. The courtyard in front of the main sanctuary gradually fills with monks dressed in ominous masks and colorful costumes. Figures intended to intimidate evil spirits are then brought into trance accompanied by loud trumpets and drums. Masks with fanged mouths and heads framed by skulls complete their horrific expression. Each gesture has a prescribed

Buzz of masks in the courtyard in front of the shrine

The Ladakh Madonna or Praise of Motherhood

Dressed up young monks

Ceremony and still naturalness - all in the color of saffron

meaning. With all their quirks, the ceremonies are meant to remove negative emotions from the onlookers and bring about better karma. Essentially, the elimination of the ego is the whole purpose of the ritual. Indeed, the Buddha's teaching proclaims that ego is the main obstacle on the path to enlightenment. In the auditorium sit elderly men in dirty coats, women with high hats and monks dressed in crimson bedspreads zän. Even tourists laden with cameras are not missing from the scene. However, this multi-day performance is too long and monotonous for the European experience hunter. Yet we leave filled with the certainty that here, in the Lamayuru Gompa, this time evil has been utterly diminished…

While traveling along the Indus River, we can see some more interesting spiritual buildings. The first of them, Chaos-Khor Monastery in Alchi, is surrounded by a lush garden.

Proudly, it shows off its exceptional wall paintings and a set of wooden sculptures that have been miraculously preserved for the last nine centuries. We also visit the architectural jewel, Gompa in Likkir. In the afternoon sun on the terrace, we are welcomed by the seven-meter-high golden statue of a sitting Buddha, peacefully looking over the surrounding countryside. Curious, I peek into one of the monastic chambers - barely a ten-meter cell, simply furnished with a bed and a shelf with a few books. On the whitewashed wall hangs a picture of His Holiness. Probably nothing more is needed. Near the village of Nimmu, we stand high above the confluence of the two rivers Indus and Zanskar. The turquoise-colored Indus glacially absorbs the turbid water of Zanskar. However, the colors of the two streams do not mix with each other, and this is a totally unique spectacle.

In the heart of Ladakh

Located at an altitude of 3505 meters above sea level, for most visitors, the Ladakh metropolis is the starting point for a wealth of treks. But the town itself offers many experiences, especially if you are interested in the history connected with this locality. In the summer, Leh makes quite a reasonable profit from visiting tourists, and the rest of the year the residents make a living based on the presence of the army and the nearby airport. In spite of low-income opportunities, the number of residents has doubled in the past fifteen years. Thus, in the streets, one can meet a colorful mix of locals; merchants from Kashmir, Hindus from Himachal Pradesh, villagers on the main road selling their produce, as well as many Tibetan immigrants and monks belonging to some of the nearby monasteries. As we worm ourselves a little, our path leads to the former royal palace. A massive construction, built by the ruler Sengge Namgyal some four hundred years ago, it resembles the famous Potala Palace in Lhasa, Tibet. Alas, Lah's palace is smaller and also more neglected, but you will never meet anyone during the tour, so you can enjoy the

Fertile fields strongly contrast with the surrounding bone-dry countryside

Lamayuru cannot complain about the lack of interest from tourists

Serving in the monasteries' lamp room is considered honour for young monks

panoramic view of the whole city without jostling with other tourists. Unfortunately, since 1830, when the royal family left this unique nine-story edifice, the building has greatly deteriorated. The rocky footpath rising from the bottom of the palace continues further, and more importantly, higher. I can really feel the difference of a few hundred meters of elevation. When I finally reach the ridge, I am relieved to greet our desired destination, the Gompa Namgyal Tsemo. I can enjoy the feeling of satisfaction from the sharp edge of the Victory mountain, whose double peak connects long strings of prayer flags. The rocky panorama, topped with a monastery set on a slate headland, is complemented by the red Maitreya temple building, proudly showing another of a series of mega-statues of Buddhas. Across the deep valley, one can also see the white-faced Shanti Stupa, one of the new landmarks of Leh. This "pagoda of peace" was left here by the Japanese believers of the Order for the spread of the Buddha's light, and the Dalai Lama himself inaugurated it some time ago. On the rocks around the gompa Tsemo, women burn incense herbs in their ovens, and a young monk ceremonially brings them a traditional sacrifice - a bowl filled with a tsampa (roasted flour mixed with butter). When, after a while, he offers me a bowl of tea with a smile, he looks very satisfied. The holy smoke stings the eyes, and we silently gaze across at the 6153-meter-high ridge of the Stok-Kangri massif, which will soon be touched by the last rays of the sun. Slowly it's getting darker, and we descend the staircase, along the high monastery walls. At that moment, one of the balconies comes to life with a hoarse musical production, the sound of two dung-chens accompanied by the thunder of the drum and wordless throat singing. With this puja, monks bid farewell to the passing day. Above the roofs of Leh, rise the minarets of several mosques. The biggest of them is the Jami Masjid, in which you can find a richly stocked map store. There are dozens of roof-top restaurants in Leh to relax. With the approaching darkness, packs of stray dogs begin to roam across the city and, with stinging barks and howling, take definitive reign over the night in Leh. Who knows? - Long ago in the 13th century, Marco Polo may have passed through this great place. At that time, however, there was only a steep stony path climbing up to the Kardung La mountain pass. Although times have changed in many ways, the Ladakh

The two-color confluence of the river giants - the Indus and Zanskar

The urban area of Leh lies under the protection of the Stok-Kangri mountain range

metropolis remains a most important ornament on the long cord of the Silk Path.

Saddles and valleys

It is not even six in the morning; covered from head to toe in the dust propelled towards us without pity by the street sweepers, we are leaving the safe arms of Leh. As soon as we pass through the police control in Pullu, the asphalt road begins to climb steeply, in a tangle of curves. Above the gray-brown hills, spanning the entire horizon, extends a majestic 6,000-meter mountain range, Stok-Kangri, adorned with dozens of snowy peaks. After that, the steady rise takes our painfully labouring car into the third highest road saddlein the world, Kardung La. We cannot

Mountain gas station under siege of Royal Enfield motorcycles

On the Way Up to mountain prayer paths (Hunder)

tear ourselves away from the view, because this place captivates and attracts tourists as if it were enchanted.The sign which proudly announces we are at 5602m above sea level, despite the GPS putting us a whole 243m lower, makes for a comical selfie moment. The snow behind us remains frozen, then after an hour of driving down, through debris covered with snow, animated by a burst of metal barracks, an army nursing home, and two alpine latrines, a completely different view opens up. Accompanied by the continuous melody of squeaking brakes, we zigzag down to a kind of delta, created by the confluence of the Nubra and Shyok rivers. The Nubra Valley is said to have been created by a giant glacier. The spectacular mountain range, the Karakoram, which forms the border between China and Pakistan, is within sight. That is why this area was forbidden until 1994. Although the wide river bed is half dry, it remains surrounded by lush vegetation. A few kilometers away, they are said to grow apples, barley, and even apricots. Not only that, in the hill to the left rises a white cascading complex, supposedly built in the 14th century: Diskit Gompa. A light half-hour walk will take you to the mysterious sanctuary of the Gelugpa orderwhere ancient mystical paintings are veiled behind centuries of soot. On one of the flat monastery roofs, we accept an invitation to tea, and during the conversation with the

Celebratory hats of local women's club (Khalsar)

monks, we stare in disbelief at the valley where, in the center of the open prayer area, is erected a 35-meter-high giant statue of Maitreya - the Buddha of the future. Just half an hour to the north-west, another surprise awaits – a sandy desert with dunes and, above all, the true Bactrian camels. They are a living reminder of one of the ancient trails of the trade route. Some of the nomadic camel-riders have settled here forever, and herds of 'humpbacks' are passed down from generation to generation.

Unexpected Touch of Holiness.

Sometimes a random impulse is enough, and things start to happen by themselves to give something unforgettable to a person. On the way back, we make a stop in a small,

inconspicuous village called Khalsar, where an extraordinary welcome is being prepared. After many years, one of the leading representatives of the spiritual life, the 102nd Ganden Tripa, Chief Lama of the Ganden Monastery, Kyabje Rizong Rinpoche is coming here. He is the highest Buddhist dignitary of the Gelugpa order, the Yellow Miter, appointed in 2009 into the office by the Dalai Lama himself. The festively decorated tent, full of colorful fabrics and carpets, is full of life in anticipation of the visit. Farmers in traditional clothing, holding the white Katha scarves along with the flowers, create a dignified queue and look up to Rinpoche and his suite in immense respect. After a short ceremony accompanied by a prayer, the nearly ninety-year-old Ganden Tripa, with a kind expression on his ascetic face, slowly sipped his tea and gradually blessed everyone present. Quite surprisingly, in the end, we received the blessing ourselves, along with the amulets we brought with us from the distant Monastery in Lamayuru. For local farmers, meeting Kyabje Rizong is more than a dream come true; surely, they will draw strength from this moment of happiness for the rest of their lives.

Cool World of Mountain Lakes

We are heading east to Pangong Lake. In the lateral rises of the valley, near the settlement of Tangtse, the road is sometimes half covered in wind-blown sand. We are enriching our six-hour long journey by observing the fauna. As a result, we gradually discover whole colonies of wild Himalayan marmots and a flock of rare rusty geese. The last part of the road reaching a height of 4250 meters, following the line of the nearby Tibetan border. The surroundings of Pangong Tso are formed by yellow hills that look particularly bright when sunlit as if they were modeled from plasticine of an ochre color. The view of the still, clear blue lake

Just behind the Chang La Saddle (5360 meters above sea level), Indians from lowland are enjoying the winter like fun

Thekchok Gompa in the Chemrey enchants most probably everyone ...

Lake Tso Moriri lies at an impressive height of 4522 meters above sea level and, as you can see, loves pastel colors

would amaze any visitor. Originally salt water, it is now brackish due to the melting of the surrounding glaciers, so no organisms can live there anymore. Pangong, 700 km2 in area, lies only partly in Ladakh, with over two-thirds (Bangong) belonging to Tibet. Early in the morning, still slightly crinkled from the icy night, we head out from the tent camp, "the Tso Camp," back west along the Pangong Lake Road across the Chang La Saddle (5360m) to explore other lakes. The whole pass is all but blocked by military cars, it has been a hellish winter, and on top of it all, it has started to snow. Between the patches of fog, we see a sign "avalanche warning" and at the bottom of the ravine, perhaps as a memento, lies a wrinkled torsion of three lorries that crashed here just a few days ago. From that height, they resemble broken children's toys. The slopes below the saddle are formed by dirt clay, alternating between a stony surface and occasional snow-covered patches. It raises our spirits when we come across a group of Indians dressed in fashionable ski wear who came here only for the tobogganing and to have snowball fights on the white snowy islands. But at the bottom, in the valley called Chemrey, the sun is burning fiercely. We are taking the opportunity to head to the monastery of the same name, a little off the usual routes. The gompa itself, stuck to the rock like a swallow's nest, belongs to the Drukpa monastic order (order of Dragons), which is actually a Bhutanese version of Lamaist Buddhism. In the dining room equipped with fitted cabinets, monks welcome us with a cup of salty tea. The walls of the shrines are covered with hundreds of repeating images, whose unifying motif is the representation of the Buddha. Ground down by time, the well-worn space radiates tranquility and absolute peace. After another night's sleep and one quick morning tea sipped out at the road junction in Upshi, our planned path leads through the river valley. As far as the eye can see, there are extensive military camps everywhere. In short, the proximity of the Chinese border cannot be ignored! We pass through Chumathang, proclaimed by its thermal springs, to take us to the flow of the Indus and one of the side valleys once again rising to nearly five thousand meters heights. A few kilometers away, there is a group of Khampas, nomadic shepherds, chasing a large herd of Kashmir goats. By combing the fur of the animals, they obtain the world-famous wool called pashmina, from which fine and expensive scarves are woven.

The road continues to slope slightly, and the landscape again begins to acquire a familiar sand-yellow color. We take a romantic look at the tiny lake Kyagar Tso, shrouded in the tumbling haze, as a little foretaste of things to come. Soon after, the surface of Tso Moriri flashes below the long slope. The forty-meter-deep lake with an area of 120 km2 is part of a network of wetlands. It lies at an altitude of 4522 m above sea level and is lined with 6000 m high ridges, perpetually covered with snow. Today's final stop is the settlement of Karzok, which was established long ago, on an old trail connecting Ladakh with the Spiti Valley. The last checkpoint with the obligatory review of documents - and we're at the finish. A moment after our arrival in the Karzok gompa, an early evening puja begins, which of course we cannot miss. As always, we enjoy the great, and above all, authentic, atmosphere. In the village square, next to the monastery, the locals raised a large gray-white tent. In fact, it is a decommissioned old military parachute that fulfills the twin functions of some kind of rural market and a primitive pub establishment. The blazing railway cars are pleasantly warm and the obligatory thukpa with crispy cabbage and chard, topped with tea, fills us with bliss. This night's asylum is provided by a wooden lodge, the Crane Guest House. During the morning photo shoot on the shore of Tso Moriri, our fingers are painfully frozen, but we are not keen to leave, because a similarly beautiful corner of the world will be hard to find. Tso Kar (4530 m asl) is a big disappointment! We trudge over half the world, and we find only a half-dry puddle. There is some consolation, though, in the observation of a herd of rare donkeys (kiangs) frolicking in the middle of the plain, several grazing yaks and gatherings of surprisingly tame black-necked cranes. It is a great pity that we have not met the so-called snow-leopard, much admired by zoologists, which is said to appear in the Rupsa Valley on rare occasions.

Flag-park in the Taglang La saddle (5328 m above sea level)

Under the protection of the Hemis Gompa

Hemis Monastery, representing the Drukpa Order, with its three prayer rooms full of Buddhist scrolls and books, is considered one of the most powerful spiritual institutions in Ladakh. A narrow ravine separates this dignified structure from the remainder of the valley; thus, it remains hidden until the last moment from the eyes of the approaching visitors. Once every twelve years, the monks of the region will stretch a giant thangka, embroidered with pearls and jewels, across the entire facade of the building. The next date for this festival is to be in 2028. After nearly a four-hour drive, including the conquering of the 5328 meters high saddle Taglang La, in the late afternoon, we finally get there. The host of the local sangha (community order) is pleased to offer us a free room. So today we fall asleep with a sense of absolute safety - what else, if we are guests on the local sacred land…

At six in the morning, the wake-up call and the icy water in the sink would wake even the dead. We emerge into the main monastic shrine, to the sound of the morning prayers, which are already in full swing. The sound of drums, cymbals, and Tibetan trumpets are accompanied by an infinite stream of monotonous sung prayers. In addition to adult monks, a group of novices, often barely seven years old, are sitting in a row. Like all children, even here, they are constantly teasing each other. The stern looks of the older monastics, however, promptly tone them down. However, as soon as the ceremony ends, they swarm out into the yard like bees from the hive, and before you know it, they begin to chase each other screaming around the monastic buildings. In about an hour, just after a modest breakfast, yet another lesson awaits them. Under the open sky, at the foot of a mast with a wildly flapping monastery flag, it's normal to find about fifty of these monks, sitting in strictly geometric rows, who - looking like crimson chess pieces - are passionate about memorizing sacred Buddhist texts. My long pilgrimage continues on to the south along the Tsarap river bed, up to the inhospitable and wind-torn border settlement of Sarchu, full of bizarre buildings made of corrugated sheets. This is where I will definitely leave the area of Ladakh, to enter through the gate of the hospitable Keylong to the pious land of northern Himachal Pradesh, where I can admire the Lahaul and Spiti Valley. But about that some other time. X

The Drukpa Order, one of the most powerful in Ladakh, rules the Hemis-monastery

Monks at the puja ceremony

Helpful aid

"WHAT DIRECTION IS THE WORLD DEVELOPING INTO, AND WHAT DIRECTION SHOULD IT BE DEVELOPING INTO".

In front of this title we really find two questions: what direction is the world developing? And what direction the world should be developing into? I'll respond to both of them separately, and after I'll try do so by integrating both in only one main question or same problem.

By wondering about "what direction is the world developing", in my opinion we have two implicit questions, that's to say, first: does the world has a direction? And second: if the world has any direction, then to wish direction is it developing into? Let's take a look to the first part of it. For being able to have "any direction", whatever this intends to mean, in my opinion this requires to have a necessary condition, but not an enough condition. This necessary condition is indeed the capacity of "awareness", in other words of being capable to understand that me, as a subject and self-being, is affected by circumstances that surround him. In other words, by something that has "the presence in here", and a presence that simultaneously is present "in the precise moment of now". Therefore me as an "ego", it's not only me, but me plus my surrounding circumstances. When referring to the term "subject as self-being", we are interpreting it in a personalistic or anthropologic sense. If we think of the subject as an individual, then we will be approaching it in a particular way, but in the case we talk about communities, nations, continents or of the world as a whole; then we'll be approaching our object from the general with a sociological look. In the context of this presentation I will be focusing the problem with a sociological prism. If we oberve the evolution of the past two decades, it's possible to recognize what is understood by consensus as the "phenomenon of global globalization". One of its principal consequence has been the progressive lost of identities. This is why nowadays, less and less it's possible to speak in strict sense, of nations as such. In practice it is possible only to refer to them as countries, since almost all of their limits have been collapsed. Not only between countries, but also within continents, and between continents themselves. It is enough to observe for example, what is happening with the old continent of Europe. Nations have not only lost their identities but they have also lost their own materials and intangibles values. For that reason for example, people are looking impassively how in front of their eyes, historical heritages of centuries collapses remaining in ashes. But not only that, they face beside how the existence of family for example, as the most basic nucleus of society, and distinctions as "being and not being" also are collapsing. Concepts such as "sexuation" are in disuse, and instead changed with fashion concepts like gender. That's why in everyday's life you no longer know "who's who.". Many could attribute the cause of all of this losses, to the presence of the migratory phenomenon around all the world. This last is a fact, but actually is this the cause or rather the consequence, the effect of the underlying result or problem? Let's try to analyze this by doing an inverse reasoning or by its opposites terms. Many countries used to overvalue what is known as the subsidiary or paternalistic role of the states; as well as the supremacy of the social over the individuality. By doing this, they have finally transformed the expression of Karl Marx: " religion, is the opium of people", into another one even worse: "humanism, is the opium of people". Why do I hold this last statement? Because today's society, has been pressured by society itself towards an absolute and vertiginous task, lacking in many cases of the mediation of a reflection as a sufficient reason. In consecuense, they have converted "human acts" in "acts of man" or acts that only belong to us as human beings. It seems that both, societies and differents states or countries, by implementating strategies or policies for the development of their resources, they have finally fallen in the compulsive goal of multicultural integration at the cost of whatever price. The aforementioned, allows to understand why the prevail of efficiency, and the obsessive search for commensurable and politically corrects results, it is not more than the "first motor or inmoved motor" of world's random and trial error behavior. In a certain way it

could be said, that if what mobilizes the world is something close to “the will to power” or rather “the pure and exclusive power of will”, then it is possible to infer from this, that what really has the world is mobility instead of direction towards something. It is also feasible to deduce that the world’s compulsion for “acting out” in all kind of things, may perfectly induce it to a “compulsive repetition”. Then what will appear unconsciously on the horizon is nothing less than the ghost of “the eternal return”... Nothing other, especially in the case of Europe, that the feel of persecution by the idea that once again they will commit the same mistakes and horrors of the past.

Now let’s try to analyze and answer what regards the second question: “what direction should the world be developing into?”. In case I achieve to answer this at least in a partial and relative way, I would wish that my theoretical assumptions, could constitute in the future refutable and contextualised conjectures, susceptibles to becoming at the same time in working hypothesis that can be contrasted and tested. What we see today, in many situations, is a world that carries the weight of its faults and mistakes, “just like a camel”. So far, in general what we see is a “red humanism that tends to pink”, that usually tries to save “messianically” the second and third world drowned in its miseries of hunger, diseases, wars and persecutions. In my opinion nothing far away from other historical periods of humanity. This is the megalomaniac feeling of believing themselves saviors and defenders of “lost causes”. However today the balance of power has been reversed, since instead of colonizing distant lands, now they are being “colonized” by their own past colonies. It’s paradoxical, don’t you think so? Formerly the “secondary gain” was to exploit far-away natural resources. Whereas in our days, despite that in the case of Europe for example, it is pretended not to recognize the true intentions behind their immigration policies; such as increasing the birth rate since the native population is aging and is doomed to disappear. Or trying to increase and introduce variance to the gene pool of the populations of some countries, because otherwise the morbidity of diseases associated with genetic mutations or hereditary diseases will significantly increase. Or pretending to utilize that “human mass” for party purposes of certain political groups. Or as cheap labor, because they obviously have an average of intellectual and educational level significantly lower, at least one standard deviation with respect to the norm. Then they have naively and mistakenly believed, that this “human mass” is easily manipulated according to their political whims. Unfortunately for them, this belief is quite far from reality, because those who are being “literally exploited” on their own Continent, but not exclusively, are themselves. The latter of course does not have a single reading, since probably I may be forgetting in this moment other secondary gains regarding the current large migratory movements. Then the question that could be asked, given the most recent events is when “this camel” overwhelmed and increasingly hunchbaked by the load, is going to leave his state of unnerving apathy ? When is he going to abandon his “moral self-resignation”, to rebel and become “a roaring lion” that fights against the established and what harms him as an individual person, nation or society ? Certainly already traces of this last are every day more manifest all over.

With enough certainty we may assure that continue talking futuristically about the current state of the world, believing that everything will continue the same, is something that doesn’t have at all any sense. Why do I believe it ? Because the world as it is now, is unsustainable, therefore in one way or another, the change is imminent. In my opinion they are three possible options regarding our future and the world’s future. The first of them, we could expressed it simply as this: “ecce homo !”, or “here is the men!”. This would be the greatest expression of power. It could be imagined as a small child that has in his hands a game, and what he simply does with it is to play in the floor all the time... The next one is the road that consists of conflict, it is the constant counter position of the opposites and what mobilizes it is the strength of dialectic. This last option could accommodate the pretension of integration as it is known today, that is basically what it is to try to extract the best from each part, for example from two different cultures. The

problem that we can find in this kind of path is that normally it brings calmness and peace only for a while, since sooner or later what intends to be integration, will create the struggle between opposites. In some way, current social dynamics, in which integration is seen as “an end in itself”, peace and calmness are derived of the utopian projection of magical thought. The third one does not precisely consist “in virtue” or in the middle point between two equidistant extremes. Therefore is not either the average between the worst and the best. The third option leaving aside any kind of judgements value’s, is probably the most viable of all, not necessarily because of its truth or rectitude. In fact I estime that truth and knowledge development are not two perpendiculars that intersect at a certain point. They rather are two straight lines that run parallel forming an asymptote to infinity. If mean while we are able to look at society inductively, that is from the individual person towards society, instead of doing it following a deductively direction, from society towards individuals; probably the contingency of things will evolve in a more positive way. Insofar if we are able to give a certain degree of individualism and identity to society, we will be able to respect its essence, since in strict sense is identity what makes us all uniques and differents. The respect of uniqueness finally means to value “the difference” as the most fundamental and important, since it is what defines us as subjects and makes each of us special beings. This also means not to be seeking nor forcing social or cultural integration as it is commonly understood. We must understand for example that cultures are essentially different and for that reason they need their own, original, and geographical spaces without suffering any kind of foreign pollution. Pretending otherwise, it involves triggering all type of defense mechanisms, due to the natural fact that they will try to preserve the survival of individuals, communities and society, aiming through the conflict and fighting to not disappear. The struggle to survive has indeed a logic sequence: search of equality among each others, assimilation and integration The issue despite, is that assimilation almost always is threatening, and sooner or later leads us to disappear.

What I suggest, is to give a complete turn to the dynamich in which the world is inserted today. For me it’s something simple and does not require’s any other capacity than “common sense”. Unfortunately this is the least common of all the senses. Maybe by this route, or by others, the world may probably take some enthalpy direction towards “a dramatic ending” and not towards “a tragic ending”. The starting point of both is identically the same, however not the end, in one it’s positive and optimistic, while in the other it’s the end of everything.

Christian Sorensen
Philosopher

Fine Arts

poetry, music, paint, print, photography, writing.

music & film

Louis Sauter
http://imslp.org/wiki/Category:Sauter,_Louis

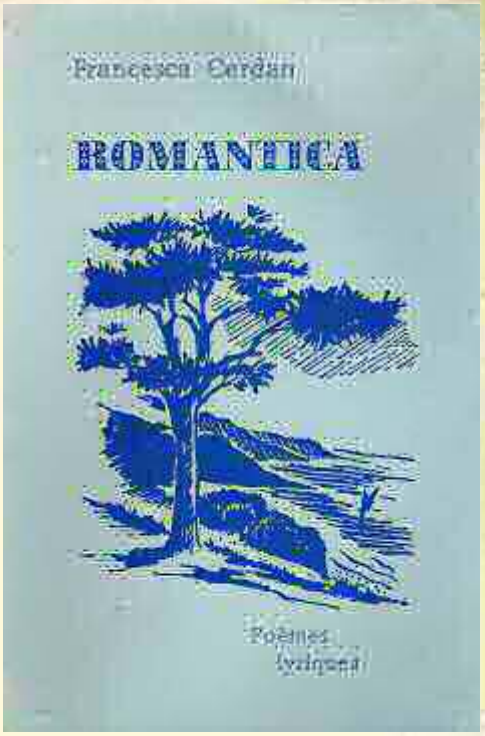
David Udbjorg
yourshot.nationalgeographic.com/profile/674347/

Jason Munn
http://www.jasemunn.net/

Kit O'Saoraidhe (Paul Freeman)
http://theprofman.wix.com/profcompositions

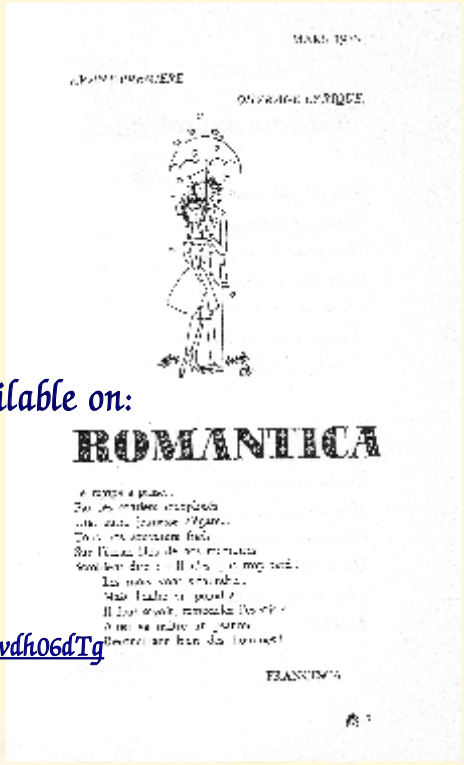
Romantica

by Louis Sauter



These pieces are inspired by poems from the book Romantica by my wife's mother Francesca Cerdan. The first three pieces – Romantica, Laissez-moi mes rêves and Forge ton destin – are quite romantic, but they are followed by a sunny Ah ! La jolie moisson and a rhythmic Rêve impérieux which depicts the author's fantasy of living in the jungle. They were originally composed for voice and piano and were later arranged for various instruments. The version provided here is for flute and piano.

The set was recorded by Polish flautist Iwona Glinka and Greek pianist Vicky Stylianou for the CD album HE published by Phasma Music in 2019. The CD can be purchased at most online stores including Amazon and Naxos Direct, and the music can be streamed on all major platforms.



Playlists including the recording of Romantica are available on:

-Spotify:
https://open.spotify.com/playlist/2BI4agjIZuAkLUfa2U2EWC
-YouTube:
https://www.youtube.com/playlist?list=PLs2no8EBWmf1jwZvziMo2Adwwwdh06dTg

To Iwona Glinka

LOUIS SAUTER

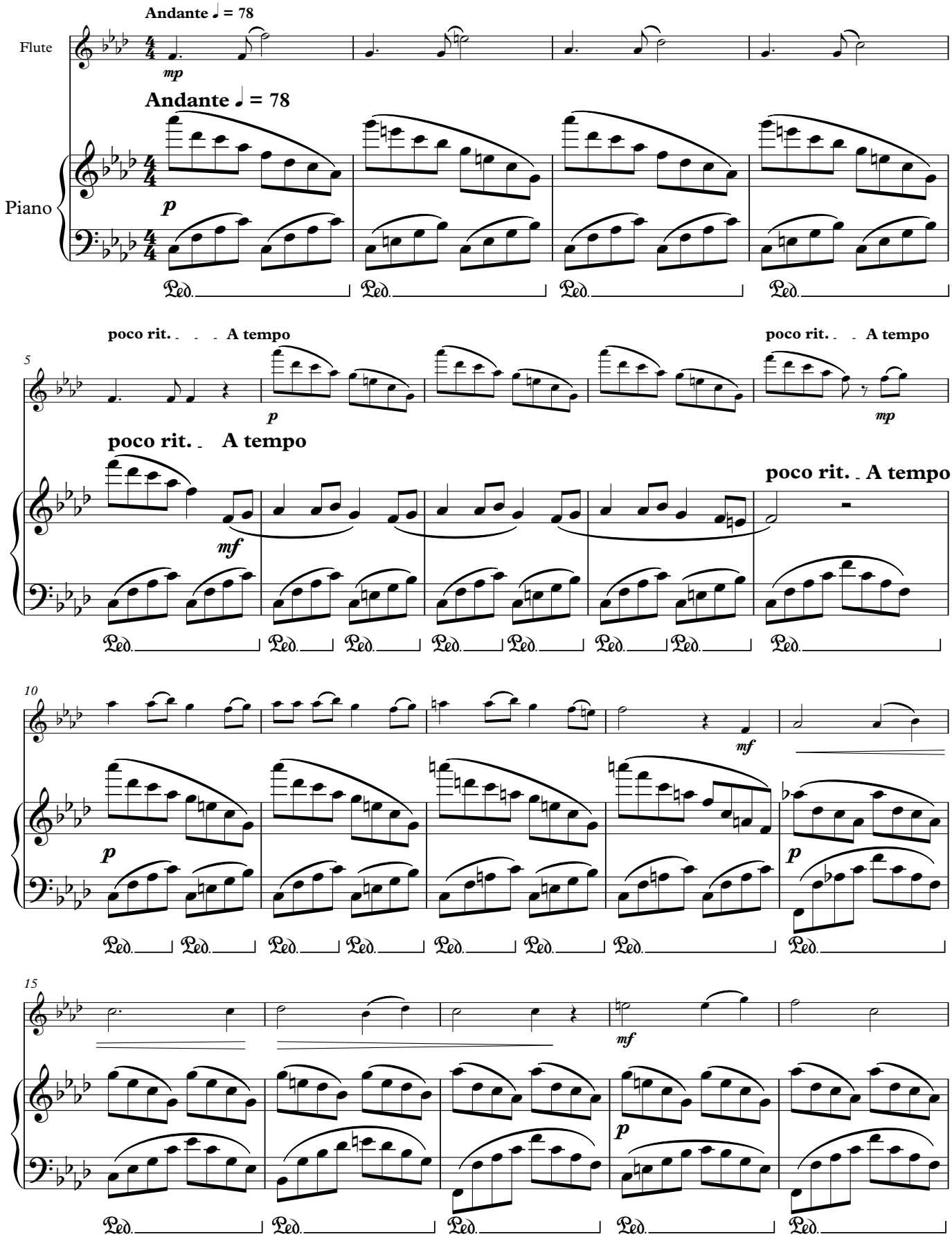
ROMANTICA

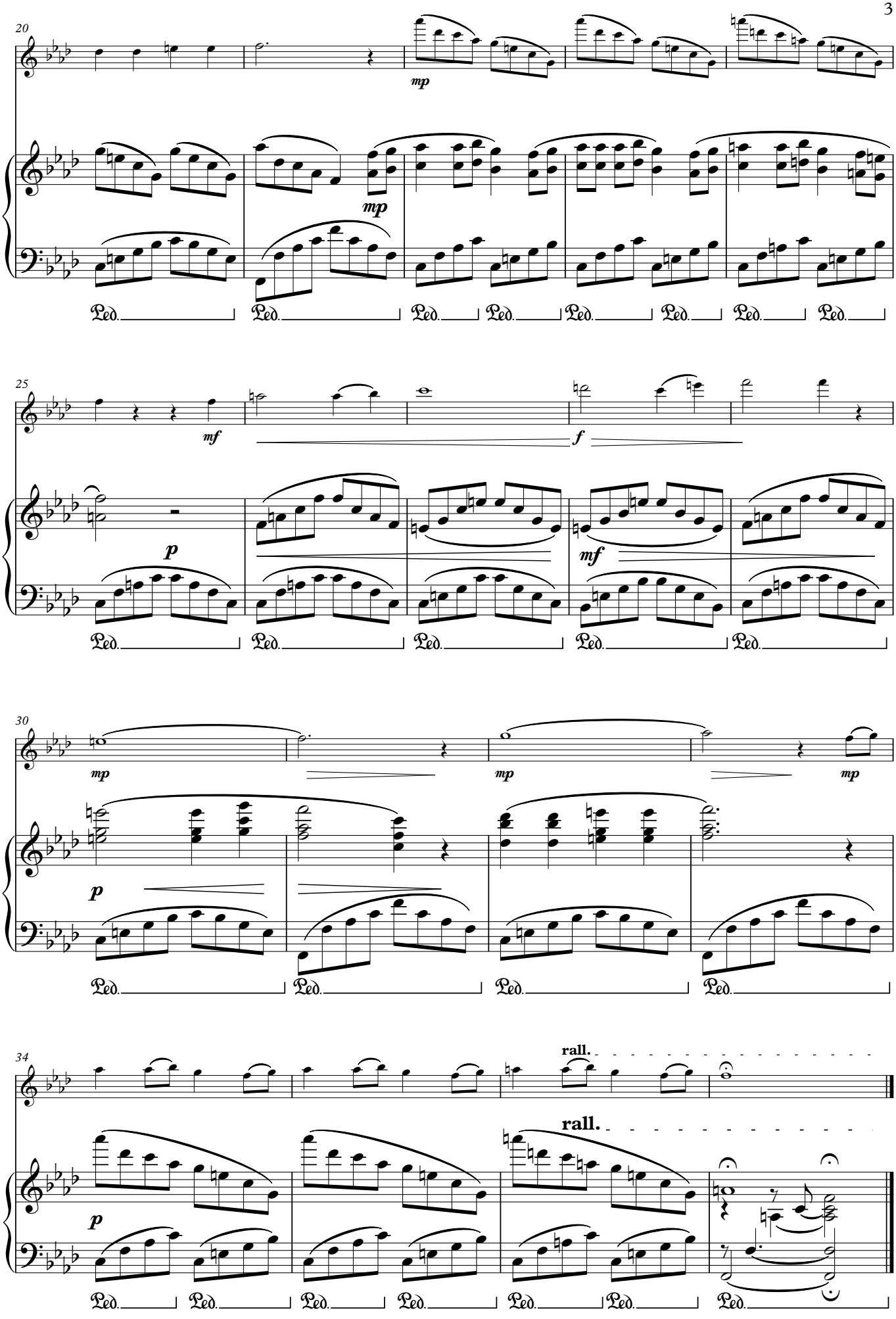
flute and piano

To Iwona Glinka

Romantica

Louis SAUTER

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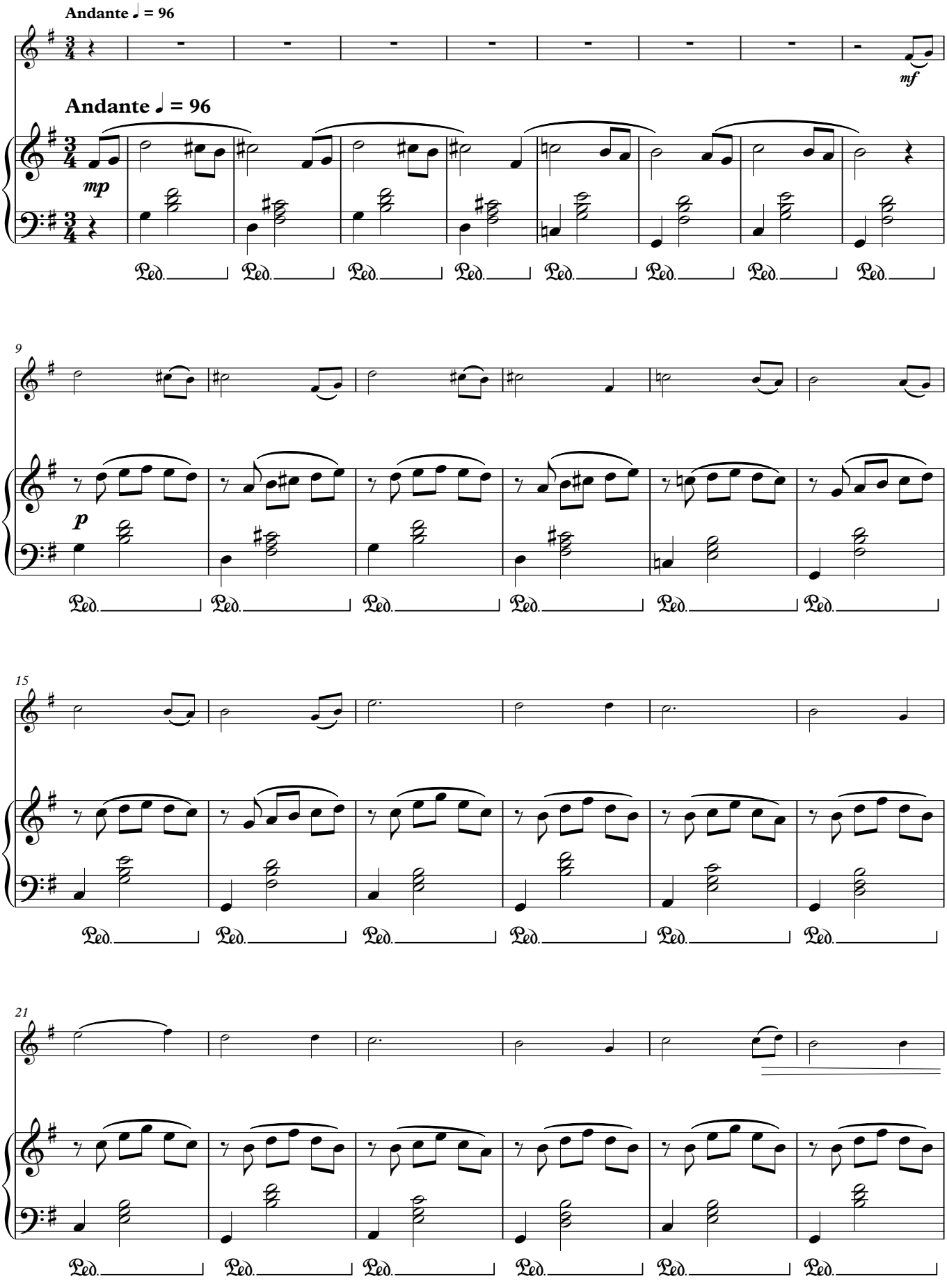
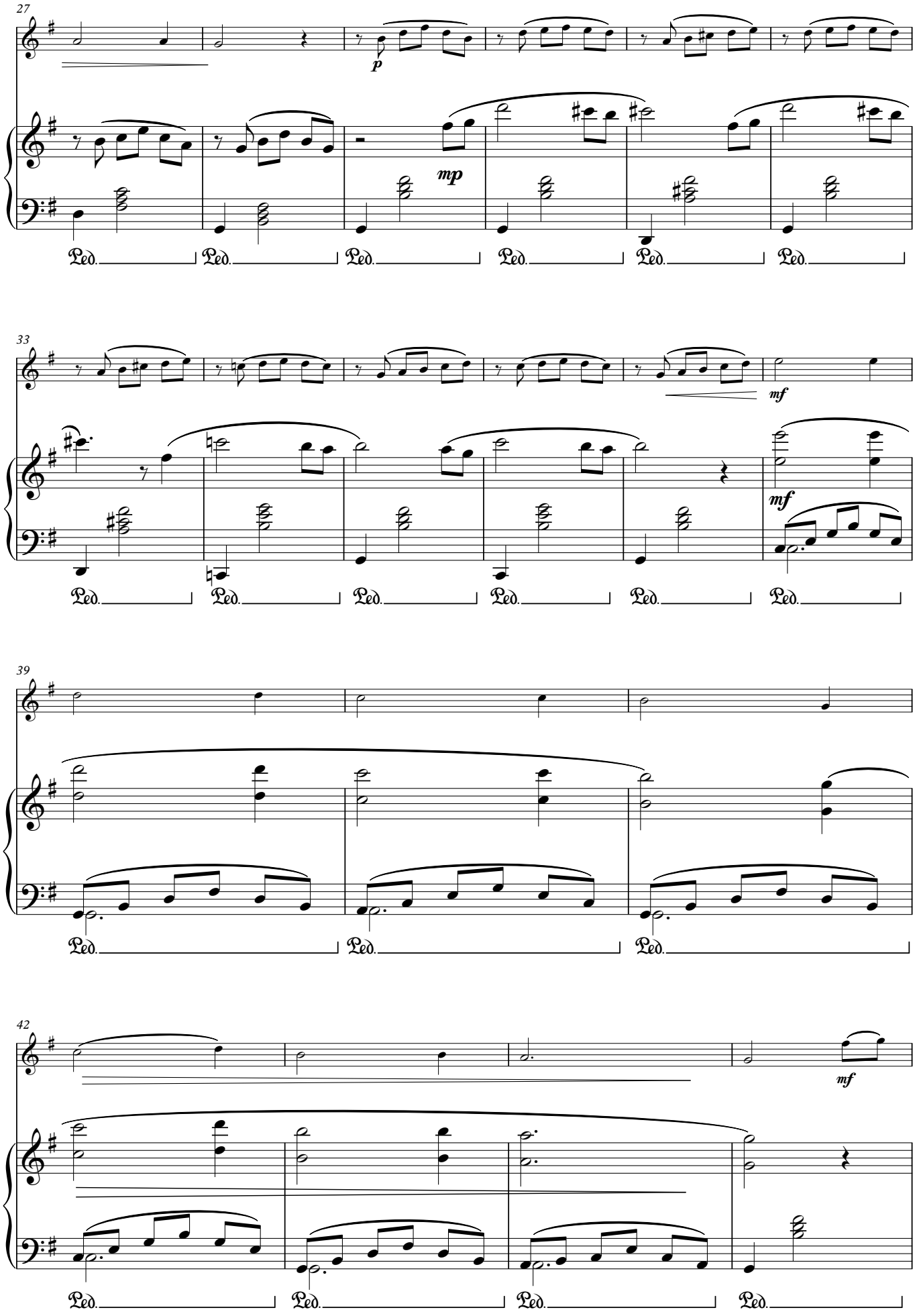
Laissez-moi mes rêves

Louis SAUTER

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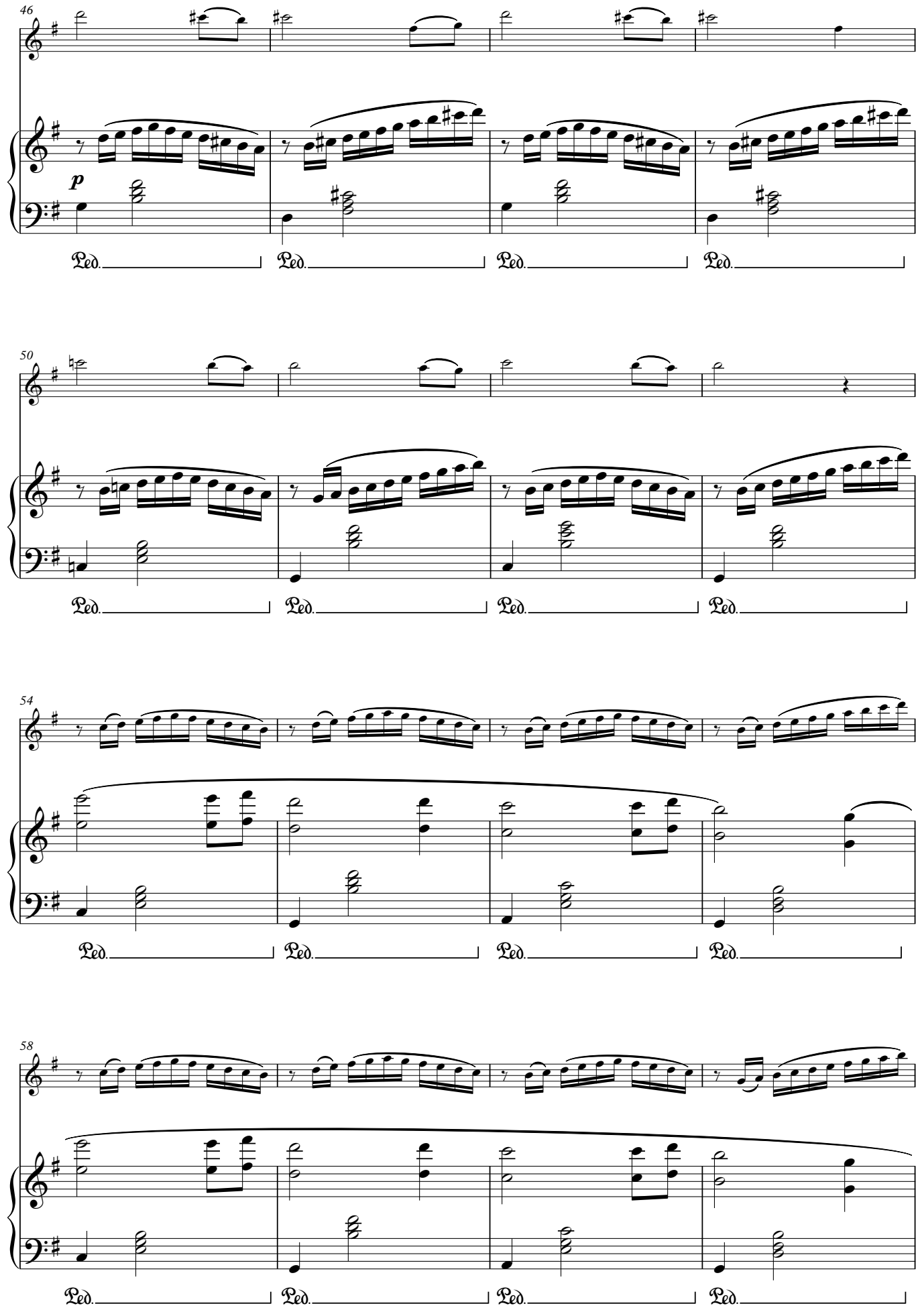
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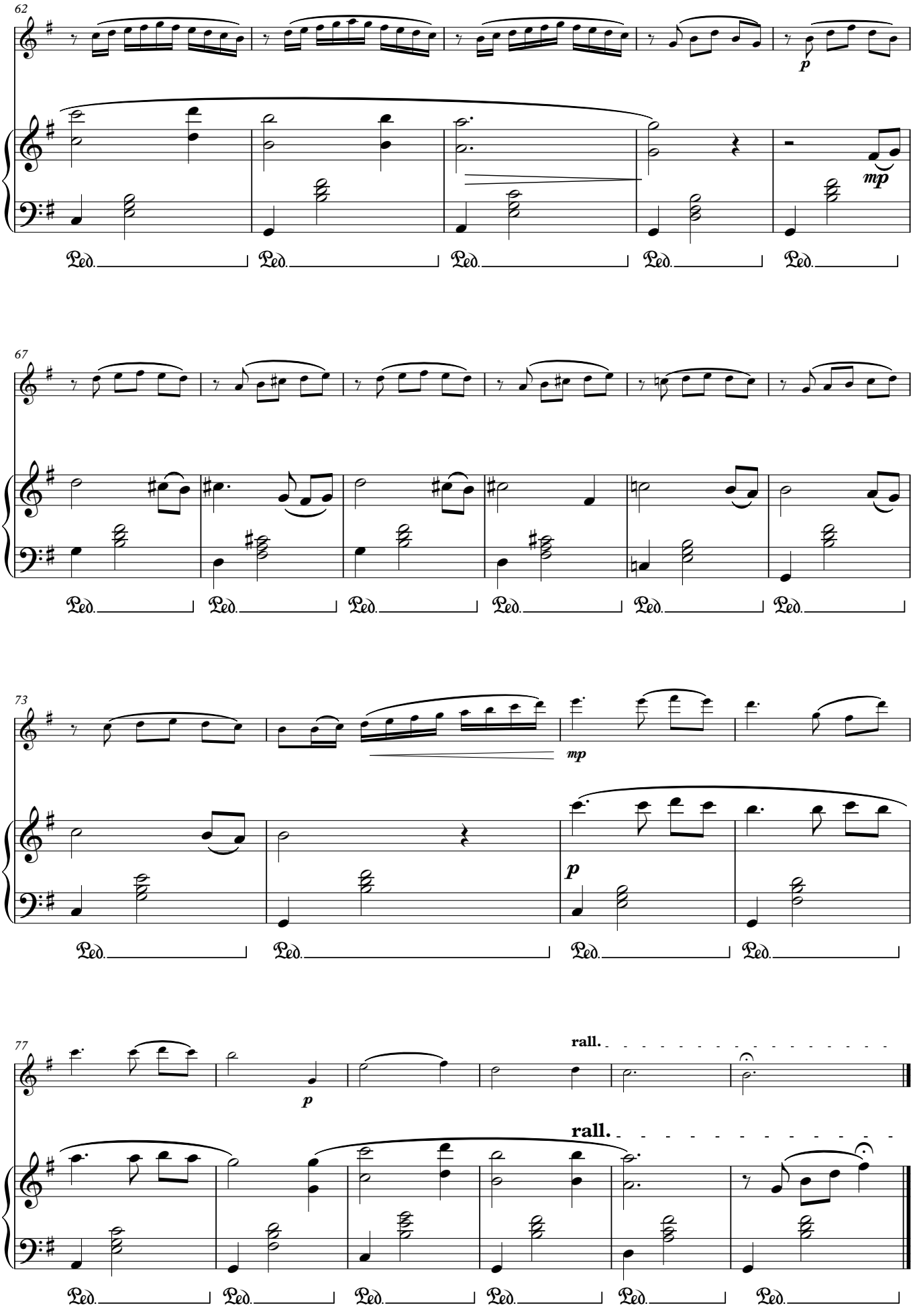
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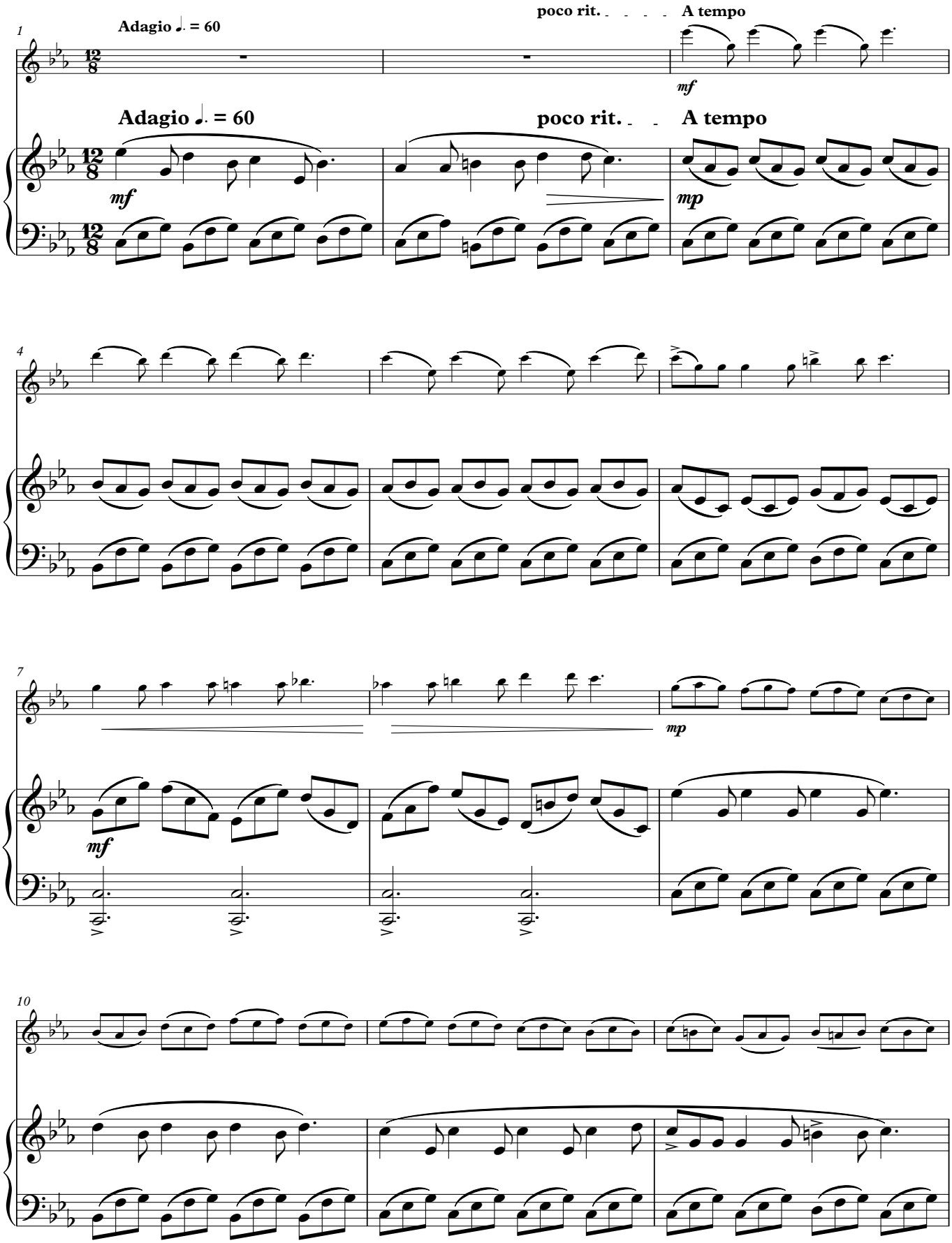
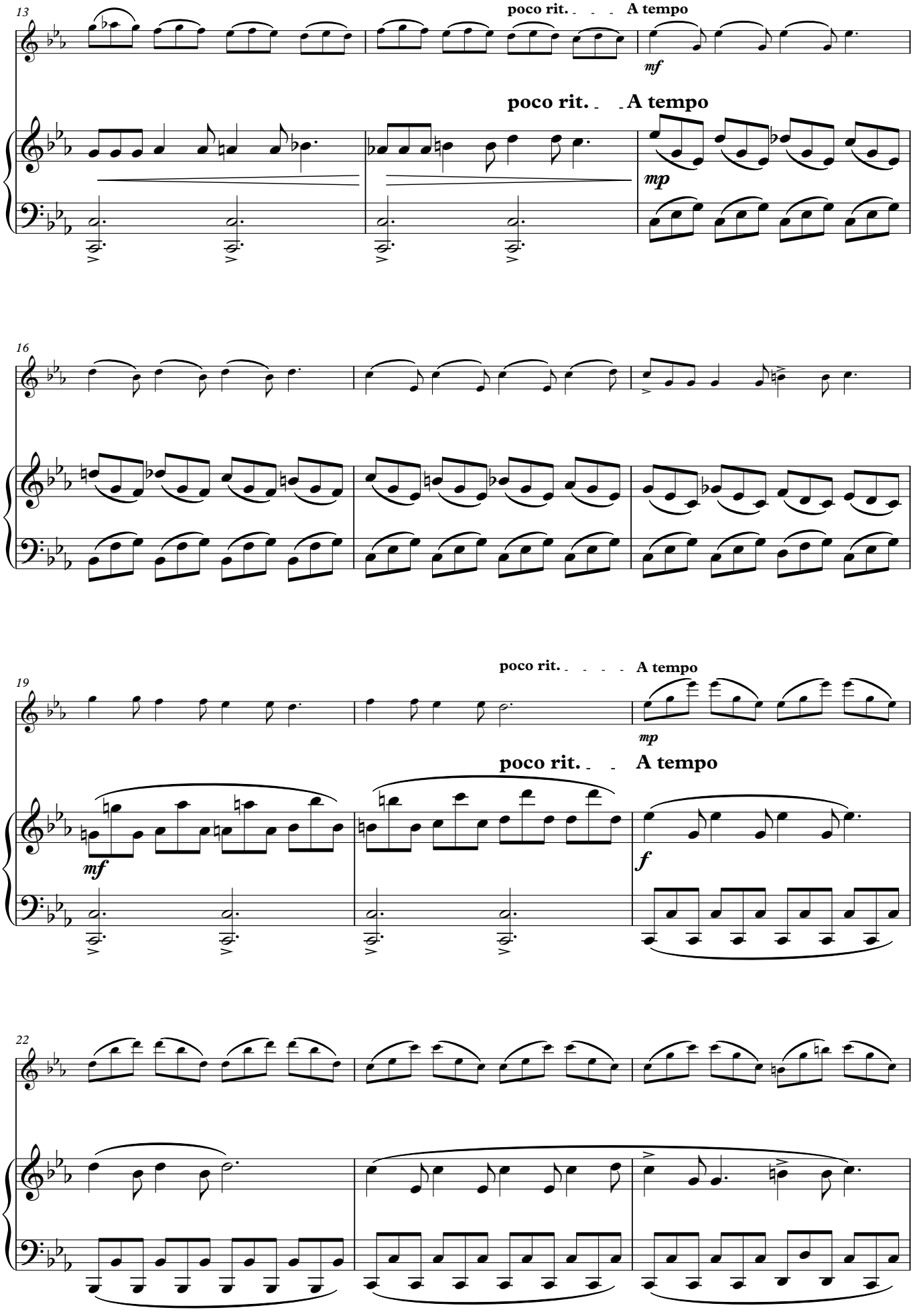
In memory of Kazimierz Glinka (1941-2019)

Forge ton destin

Louis SAUTER

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poco rit.
A tempo
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poco rit.
A tempo
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16
19
poco rit.
A tempo
mp
poco rit.
A tempo
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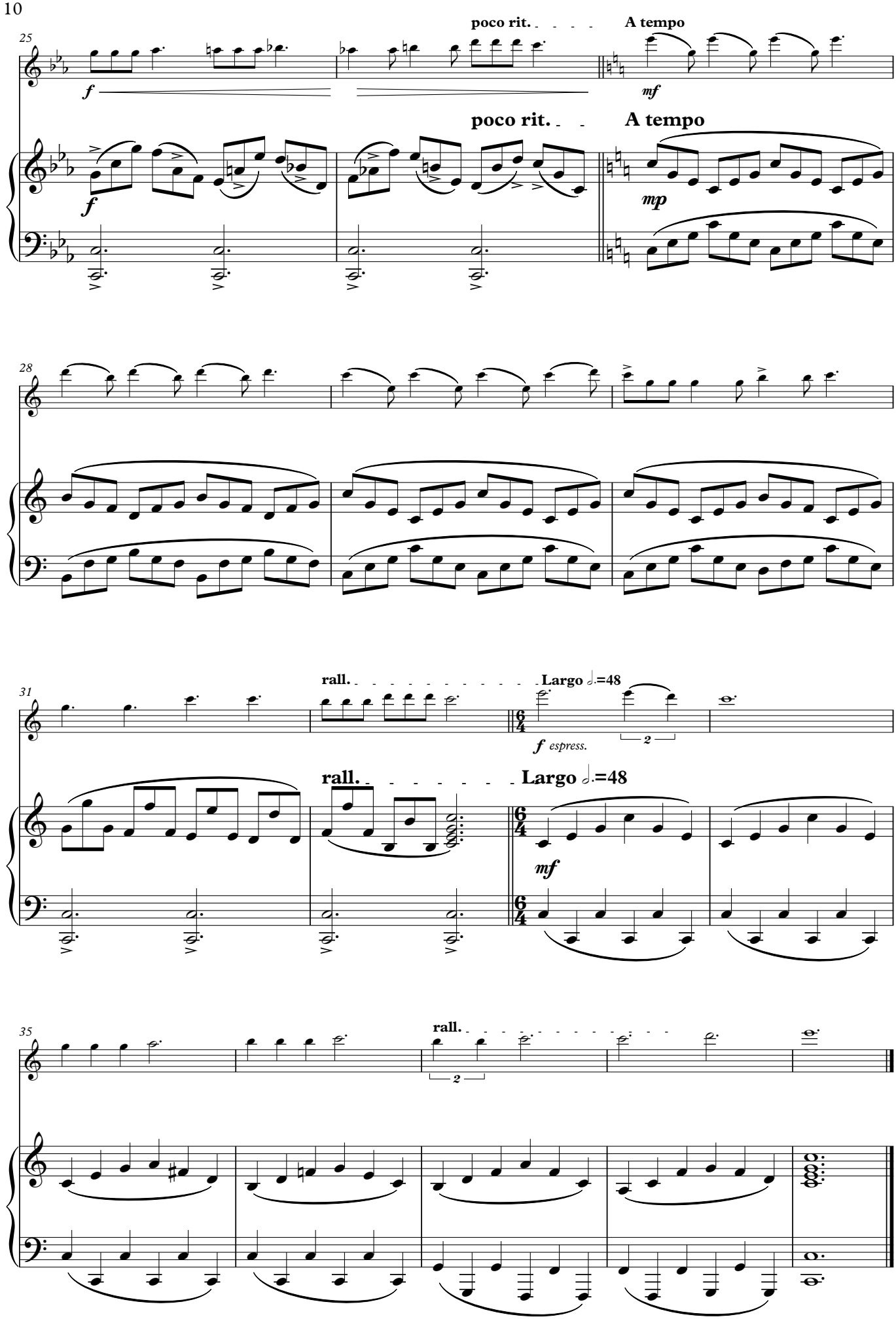
f
22


25
poco rit.
A tempo
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poco rit.
A tempo
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Largo 𝅗𝅥.=48
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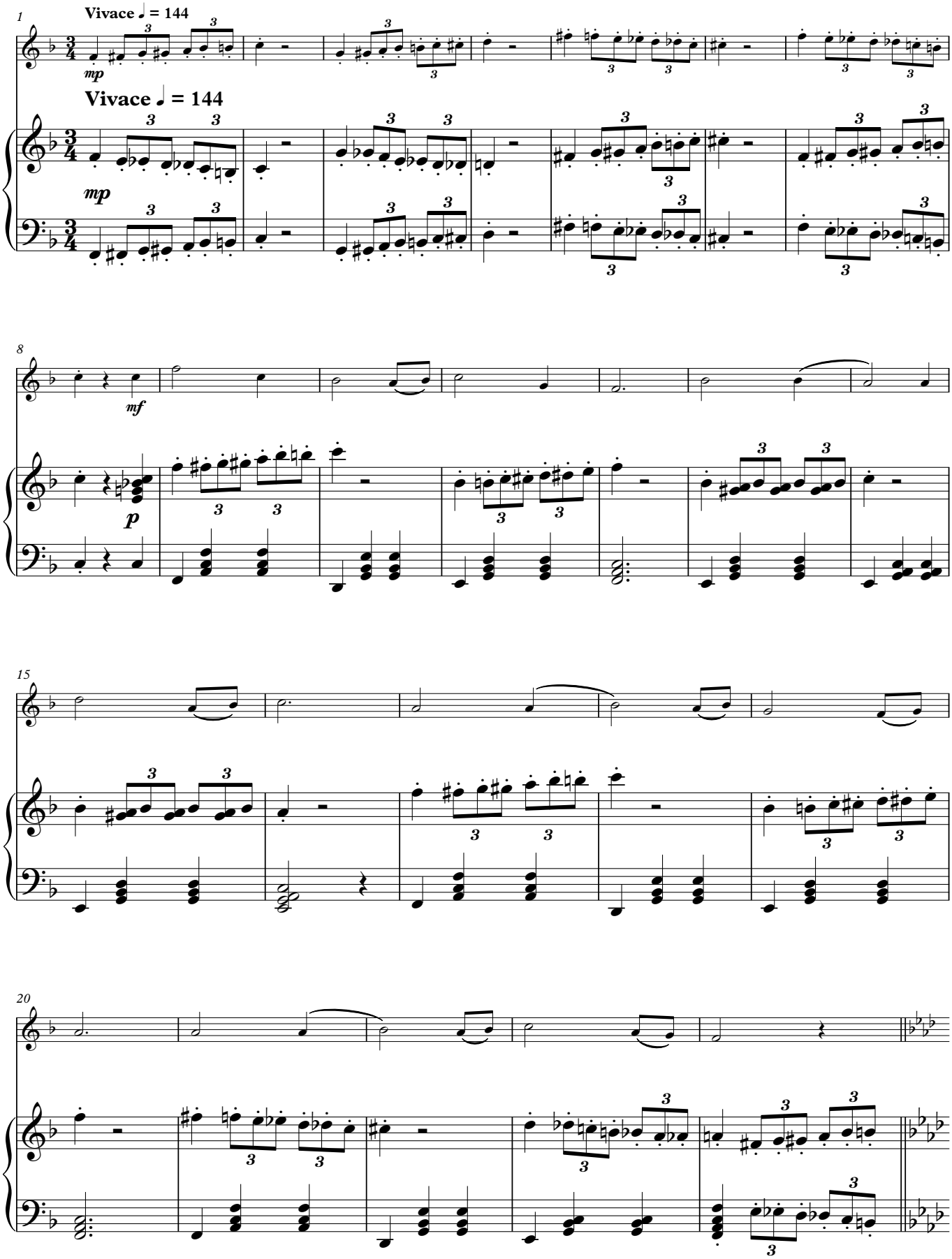
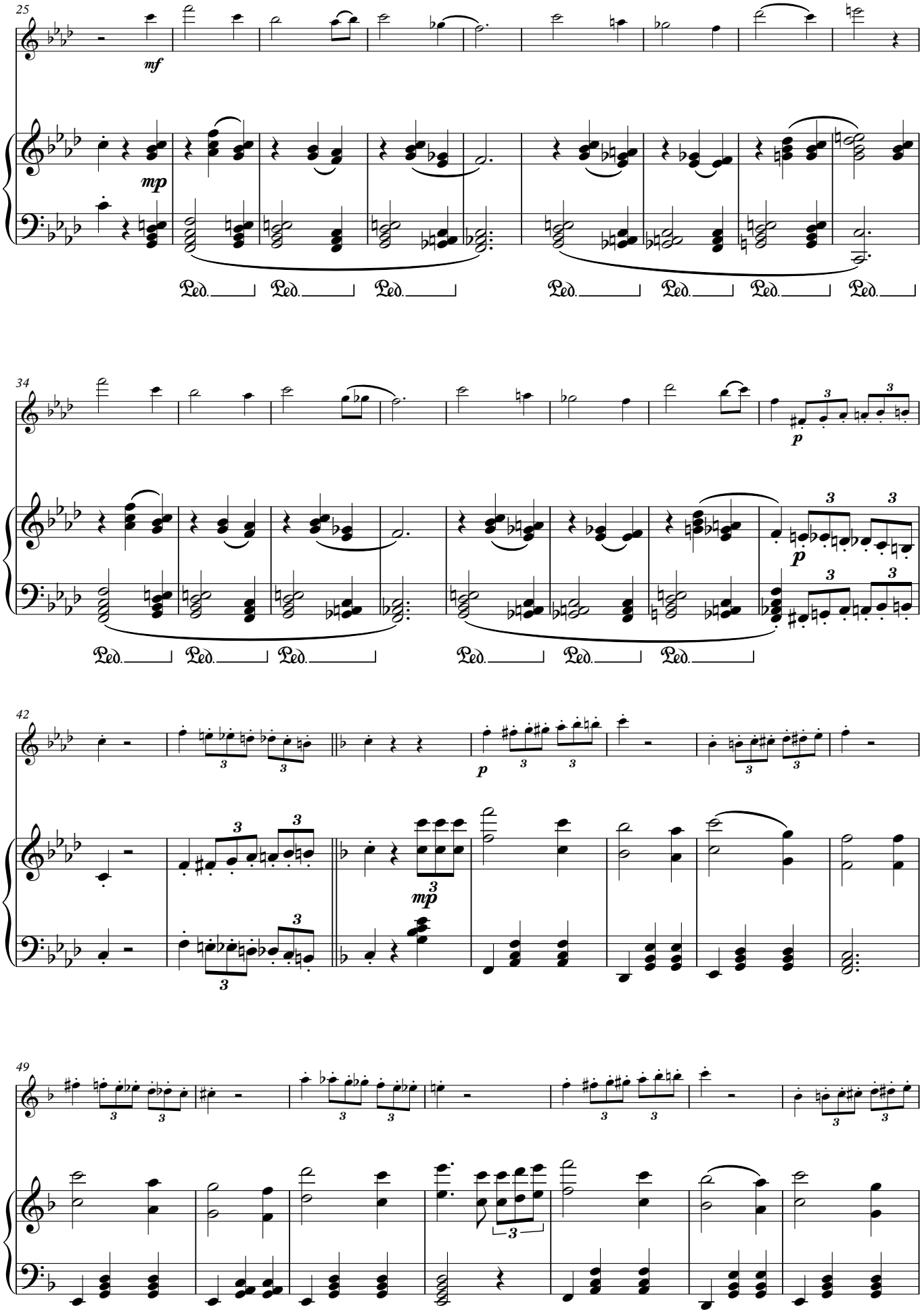
2

Ah ! La jolie moisson

Louis SAUTER

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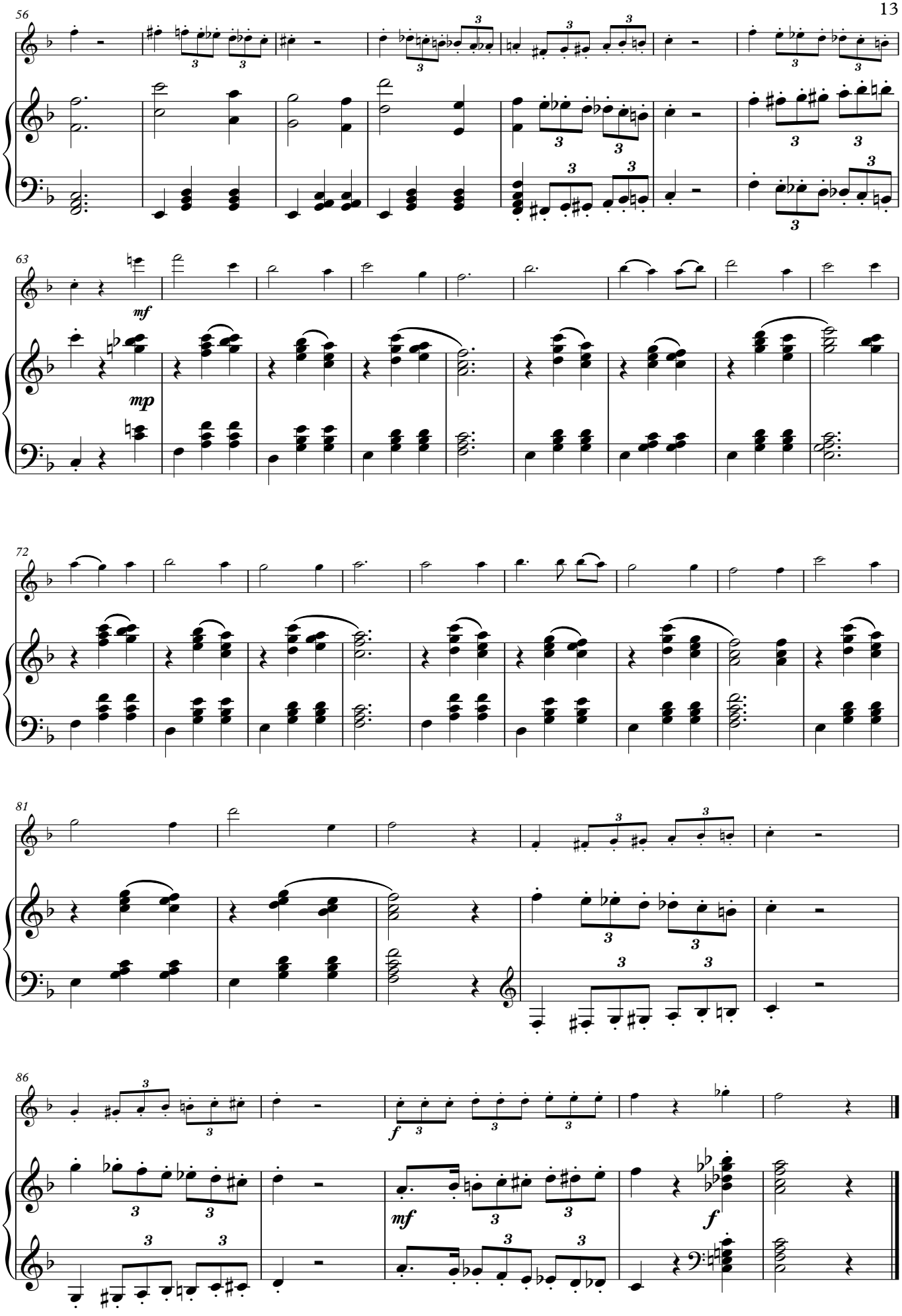
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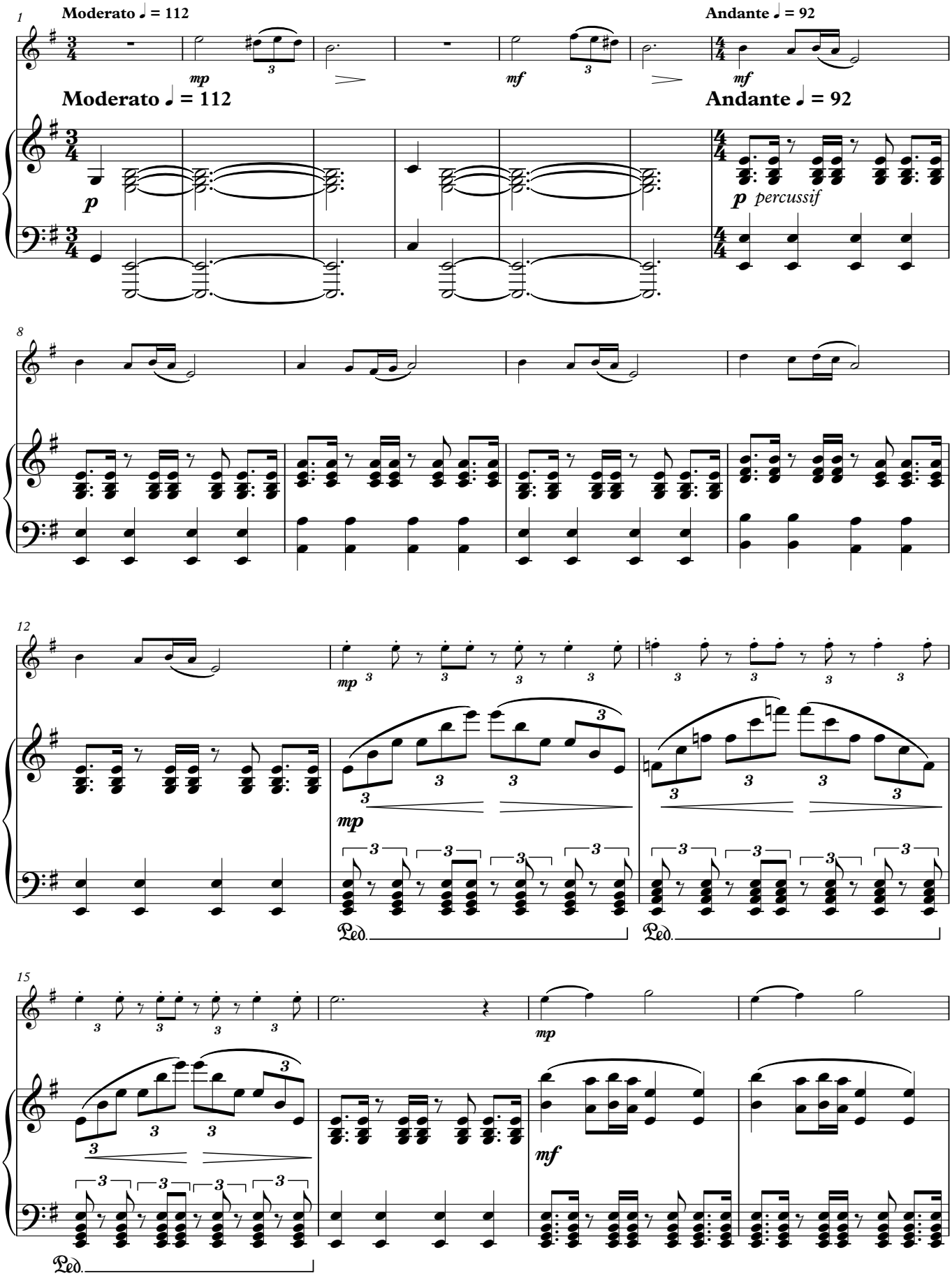
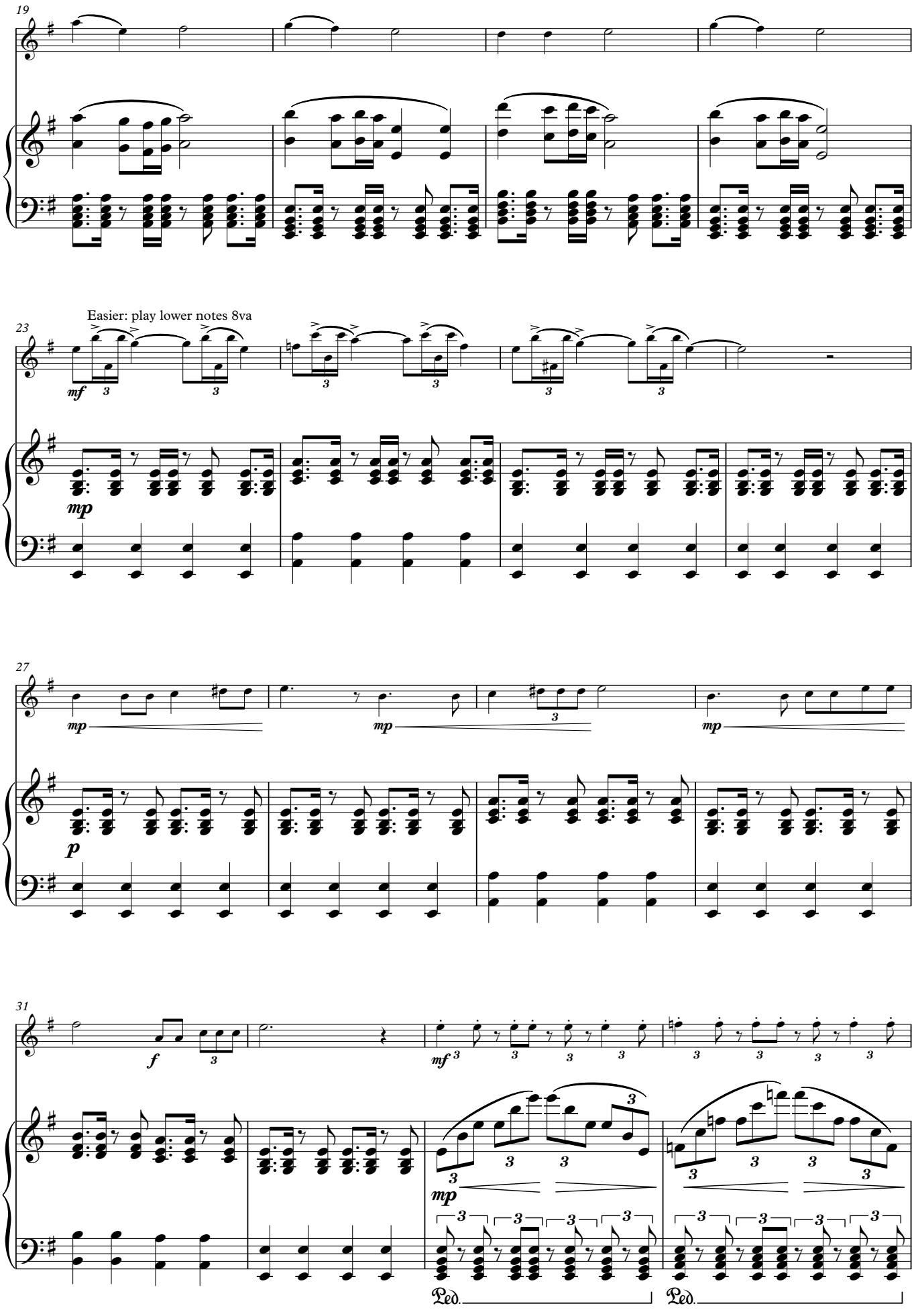
Rêve impérieux

Louis SAUTER




19
23
Easier: play lower notes 8va
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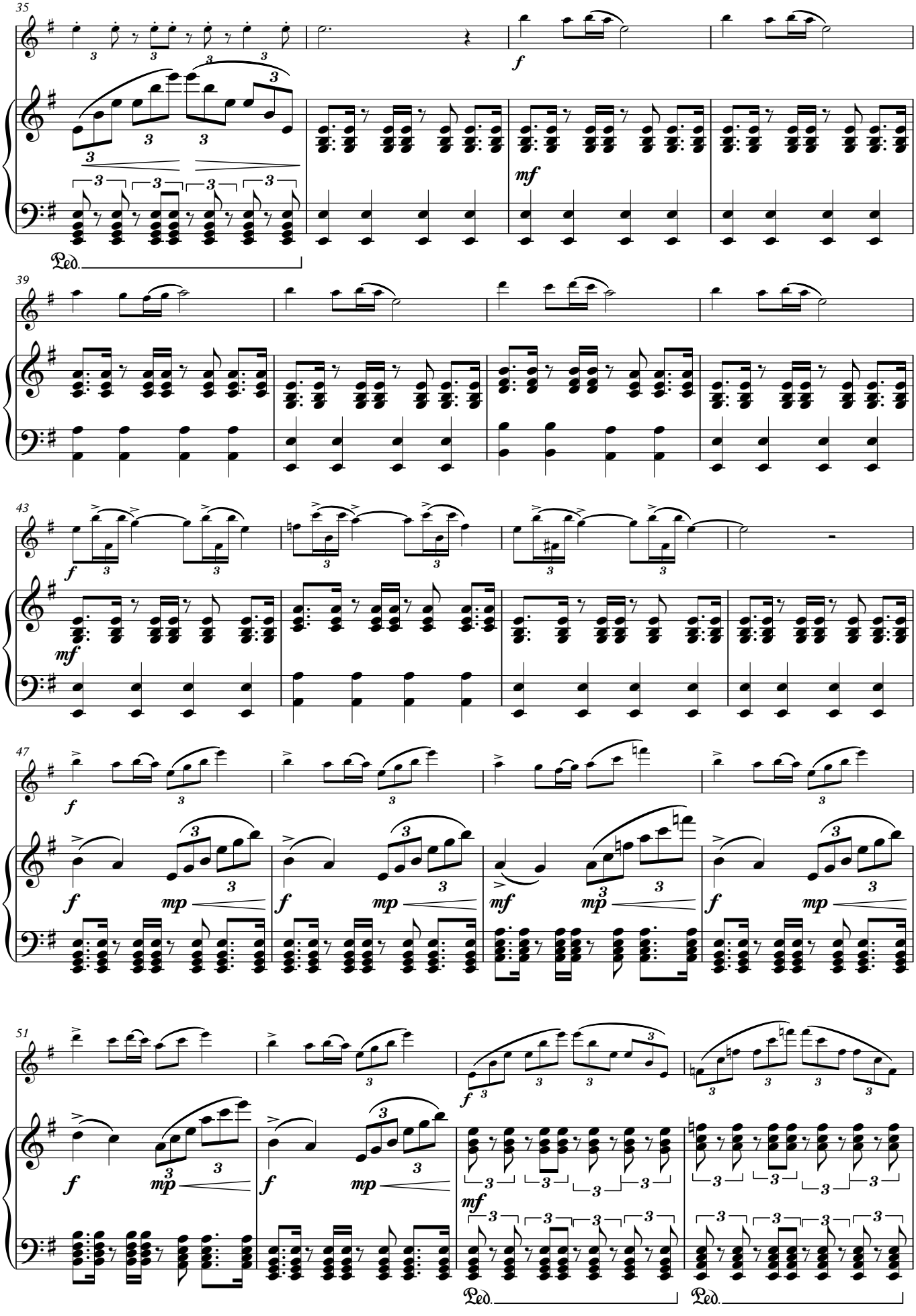
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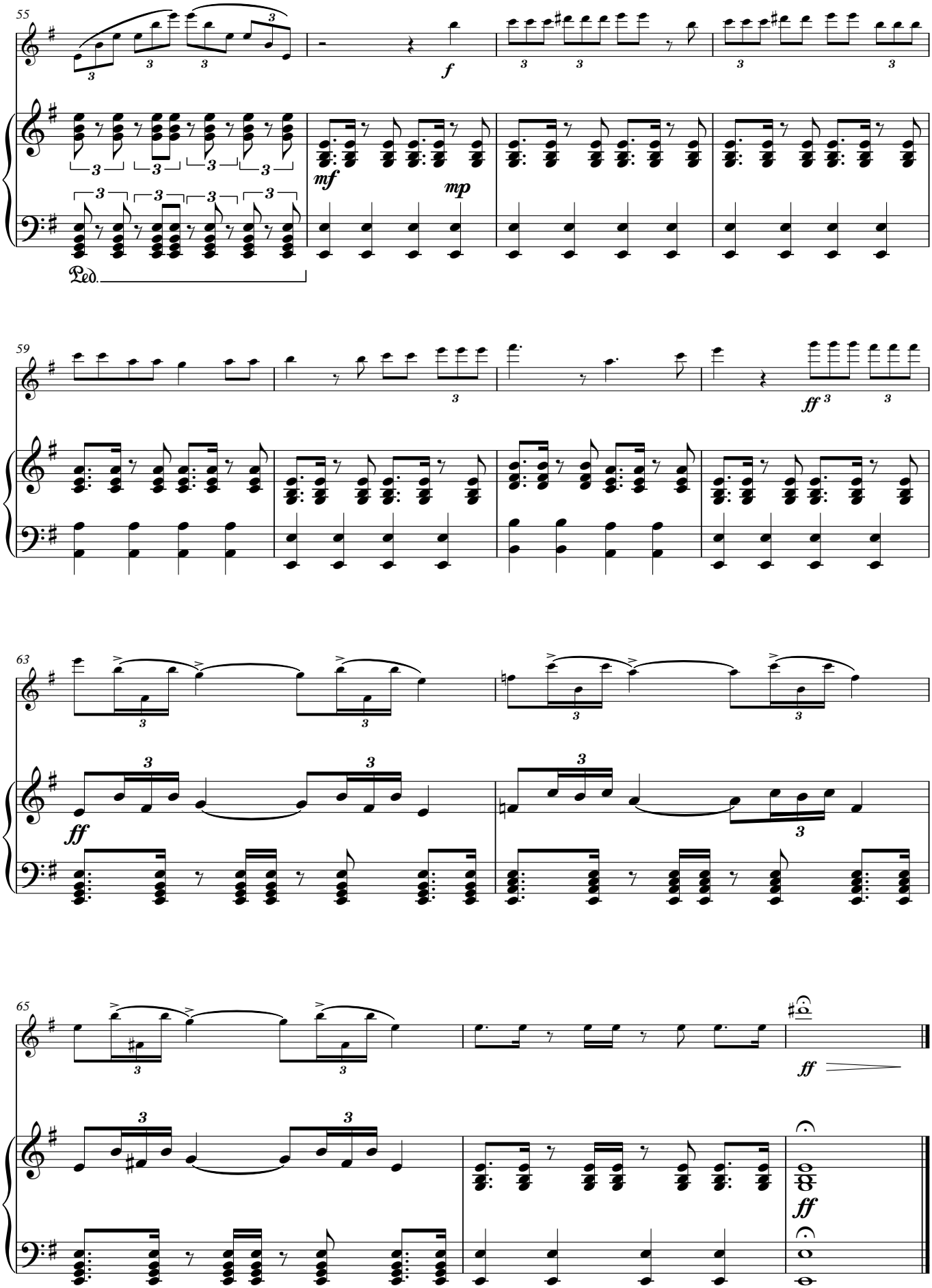
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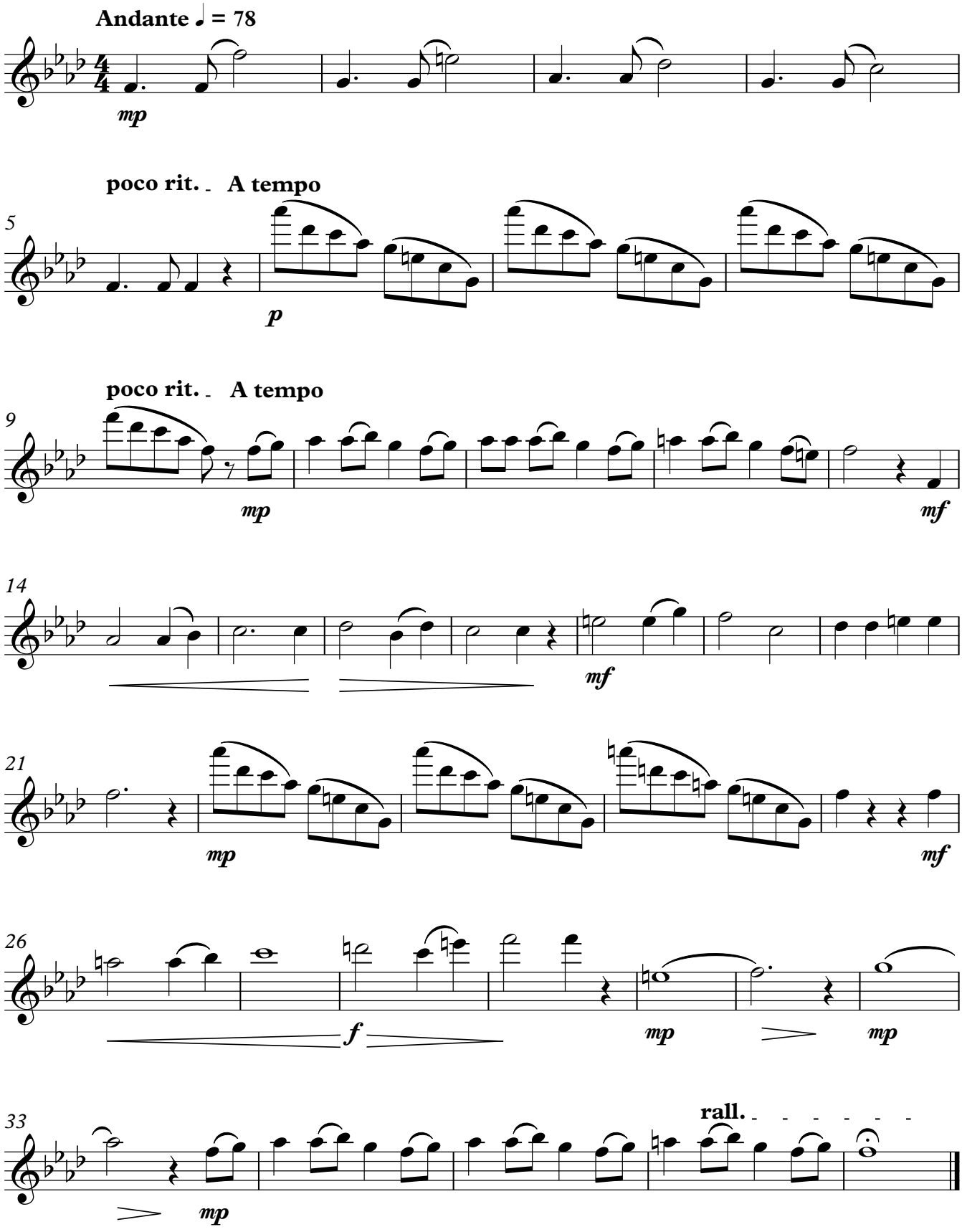
Flute

To Iwona Glinka

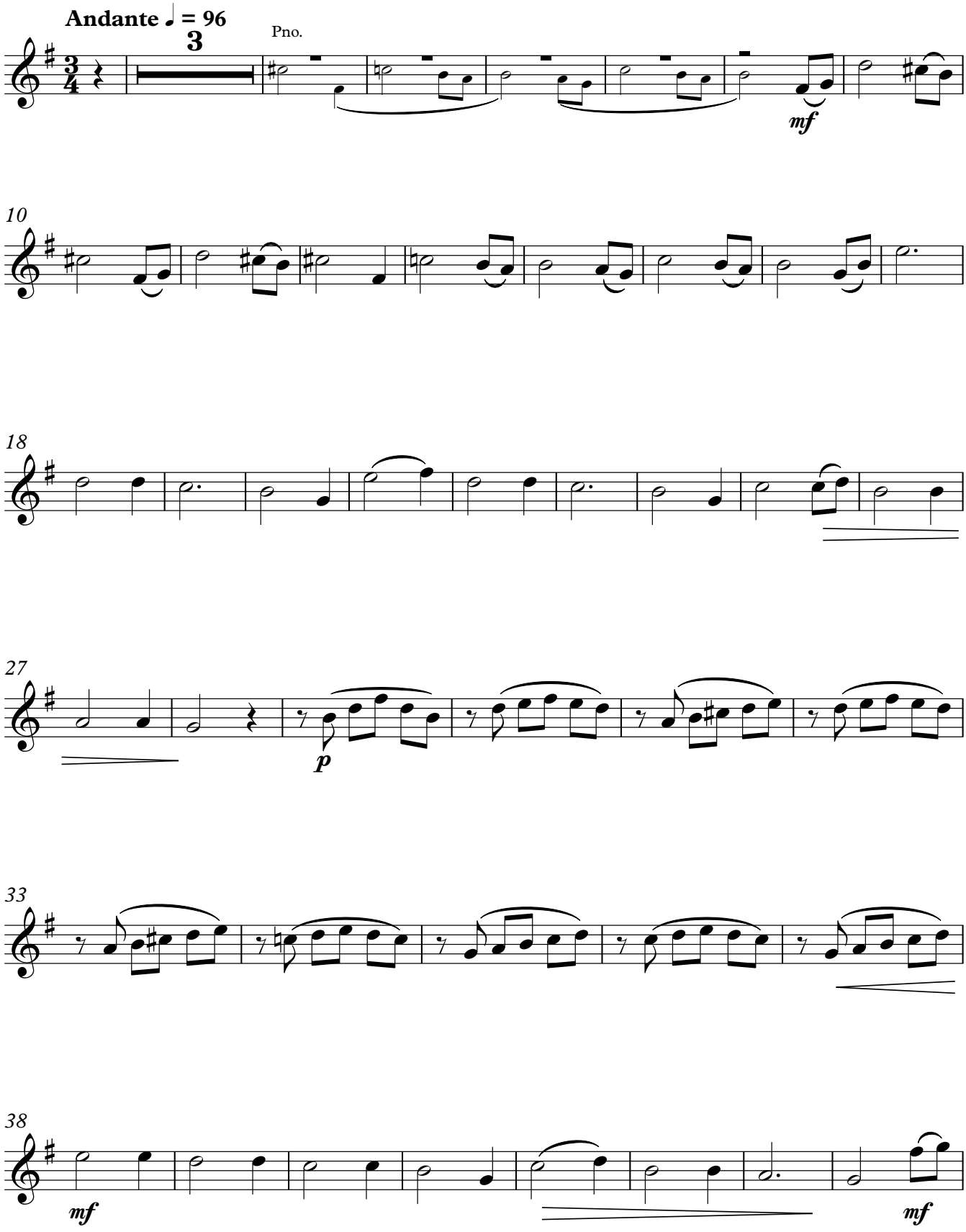
Romantica

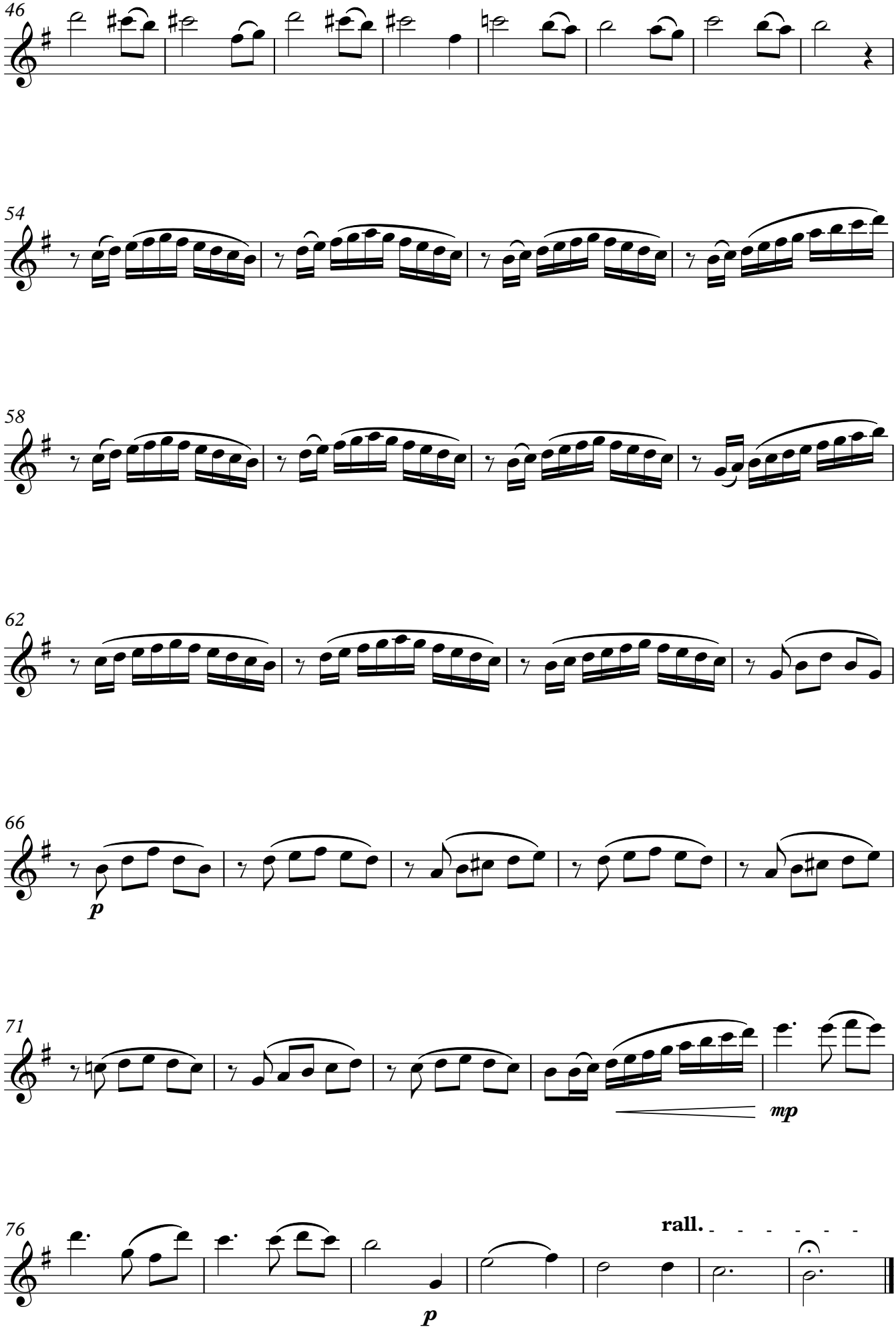
Louis SAUTER



Laissez-moi mes rêves

Louis SAUTER




46
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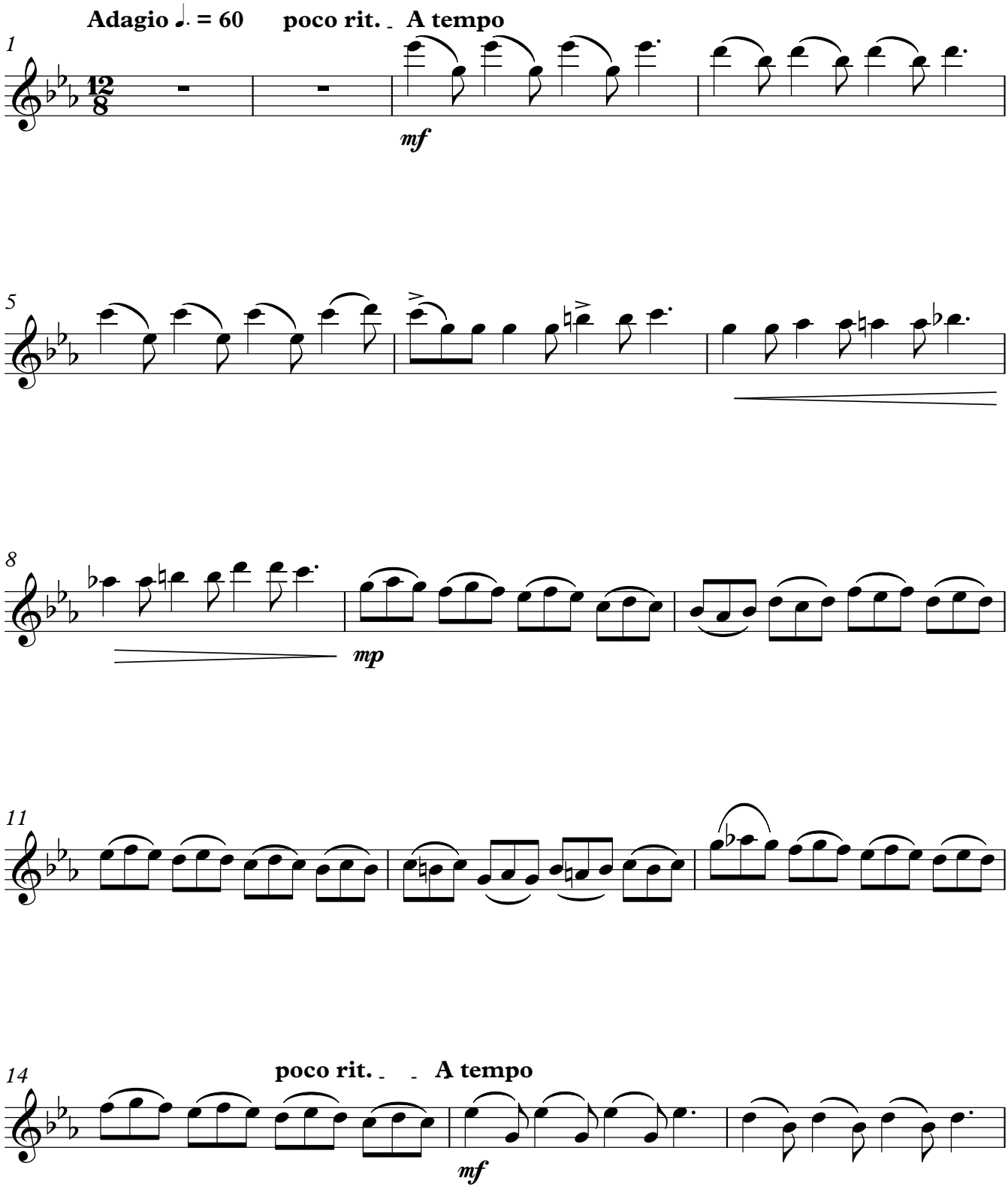
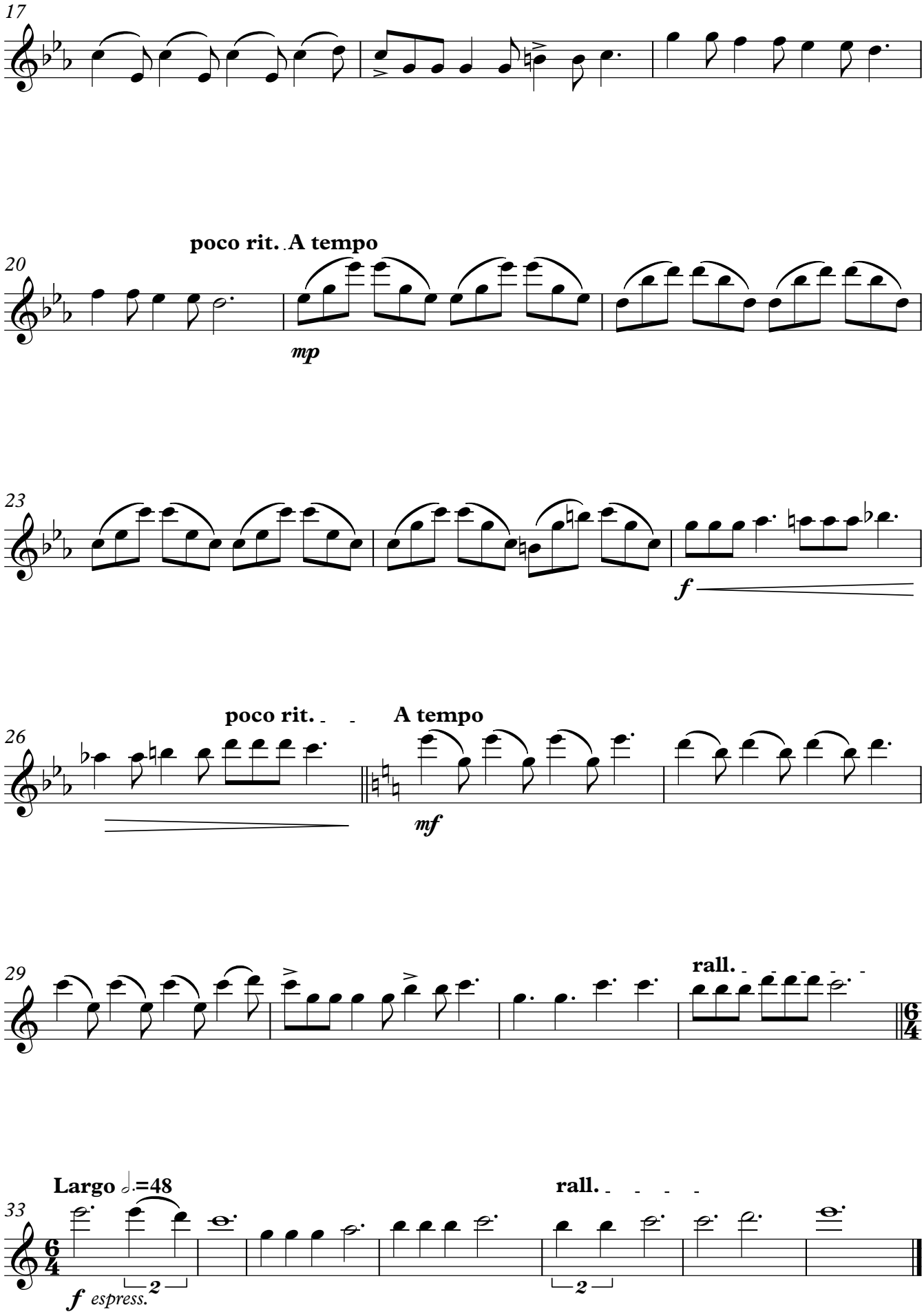
In memory of Kazimierz Glinka (1941-2019)

Forge ton destin

Louis SAUTER




17
20
poco rit.
A tempo
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26
poco rit.
A tempo
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29
rall.
Largo ♩.=48
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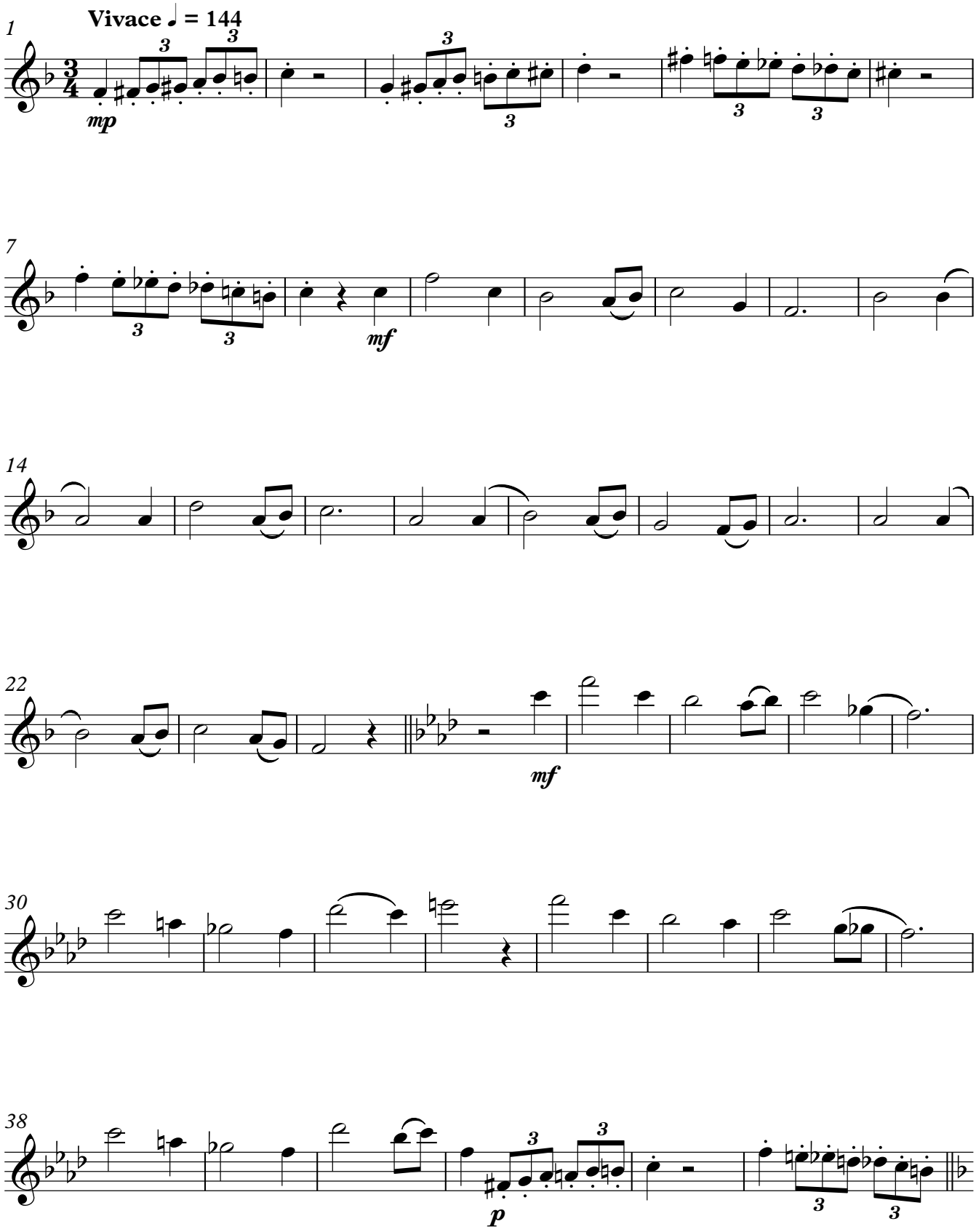
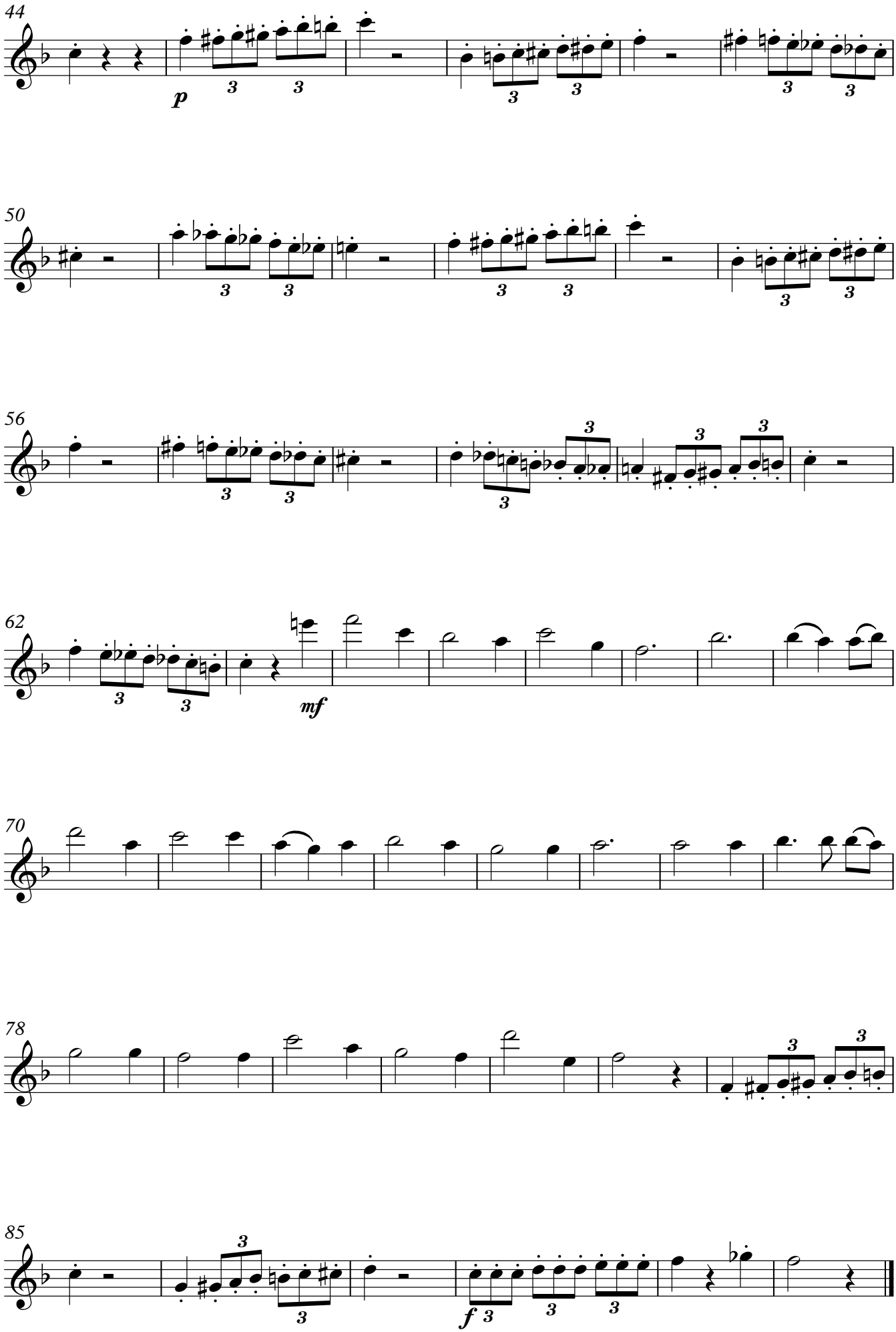
2

Ah ! La jolie moisson

Louis SAUTER




44
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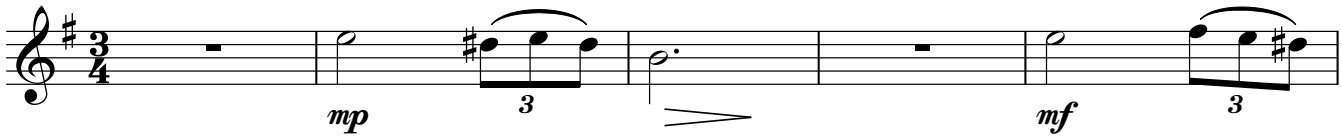
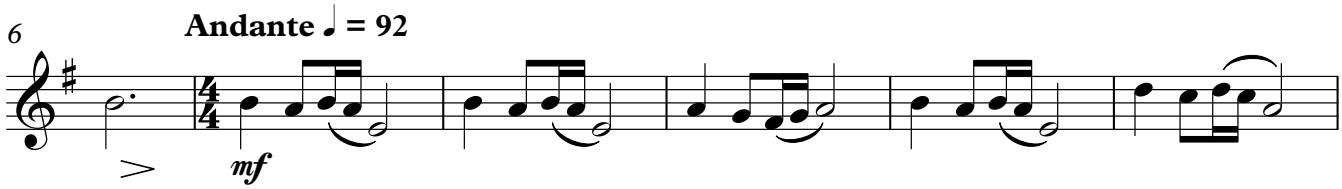
Rêve impérieux

Louis SAUTER

1 **Moderato ♩ = 112**



6 **Andante ♩ = 92**



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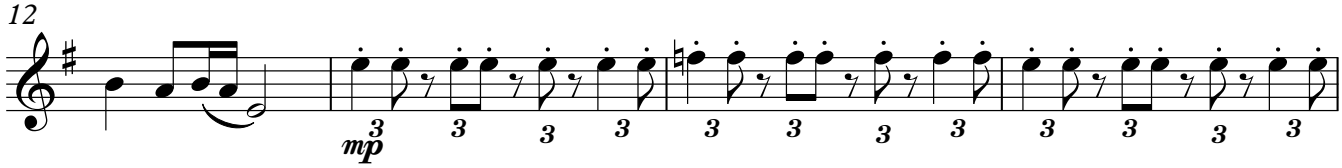

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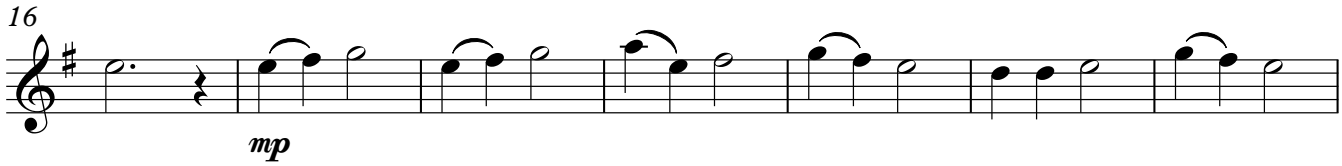
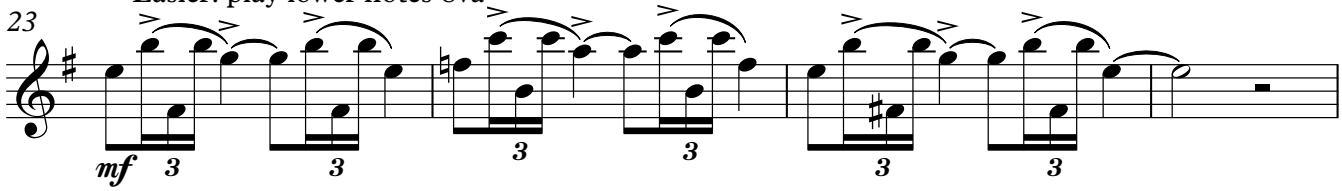


Easier: play lower notes 8va

23



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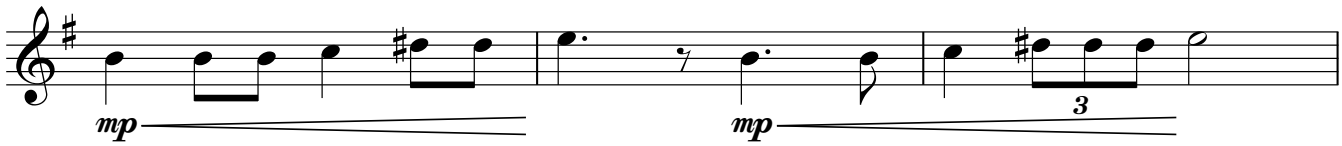

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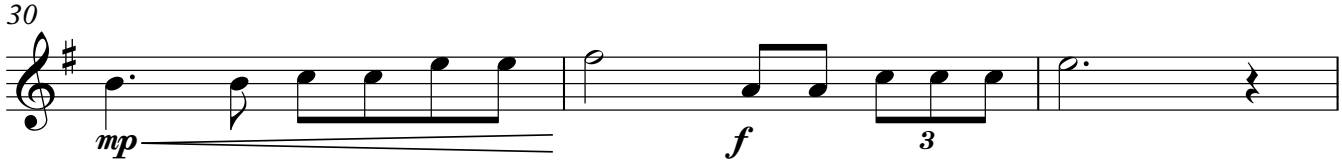

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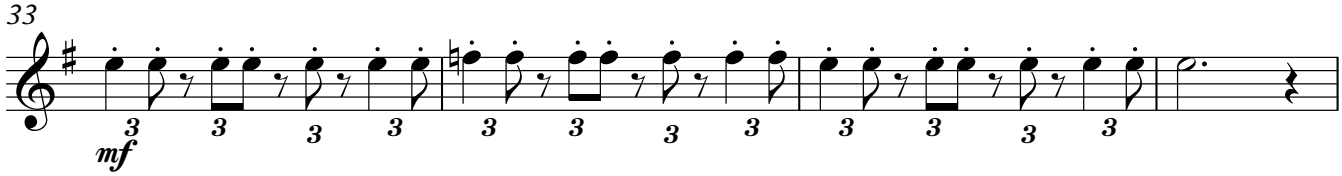
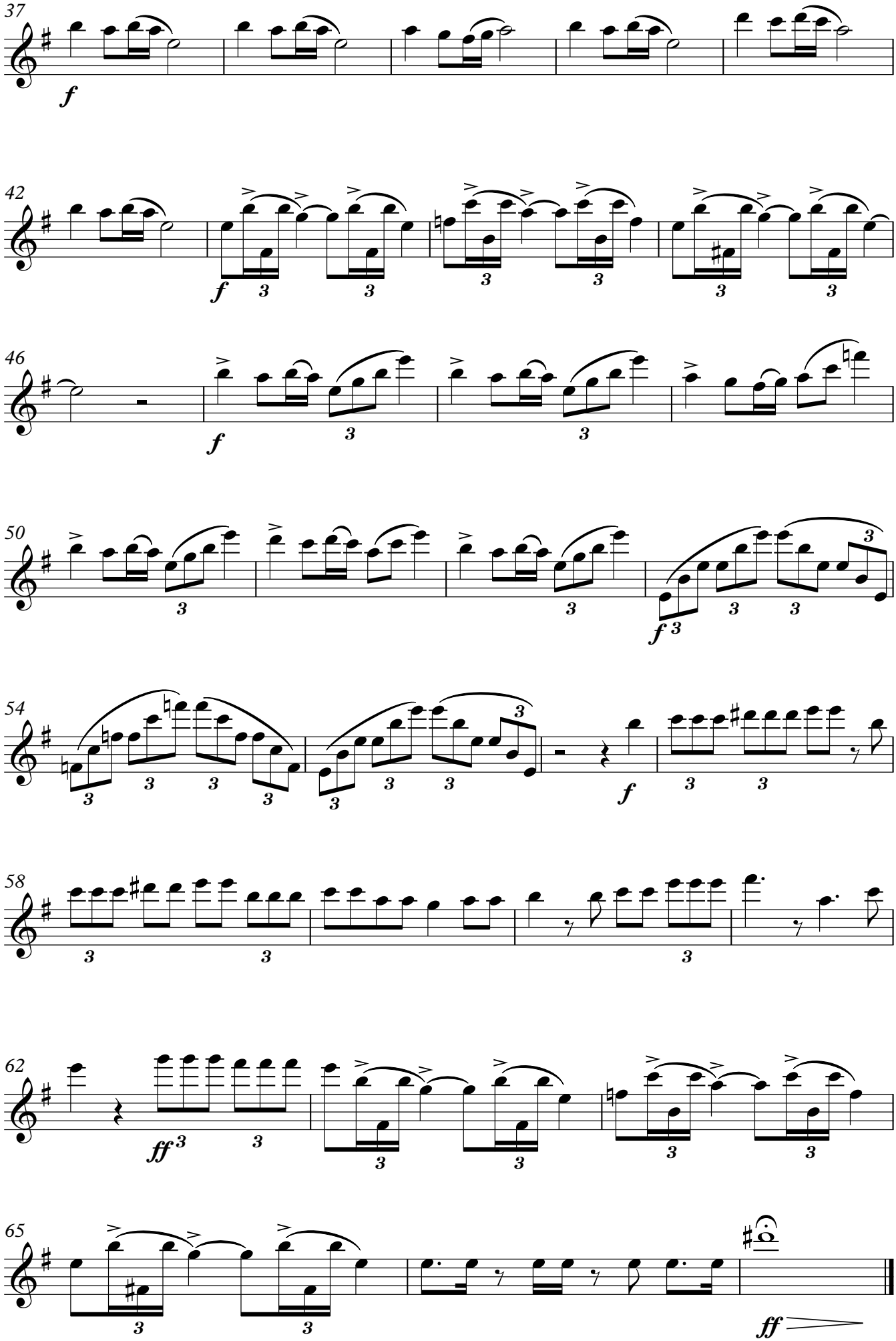



37
f
42
f
46
f
50
f
54
f
58
62
ff
65
ff

DAVID UDBJORG

RINGSTED, ZEALAND, DENMARK

VIDEO

yourshot.nationalgeographic.com/profile/674347/

Looking for The Lost City of Kalahari

https://www.youtube.com/watch?v=223DL3-Q7gc

Video and Musical Composition by Jason Munn

Bright

https://vimeo.com/343559471

https://soundcloud.com/jase-munn/brutal

Lacrimosa

By

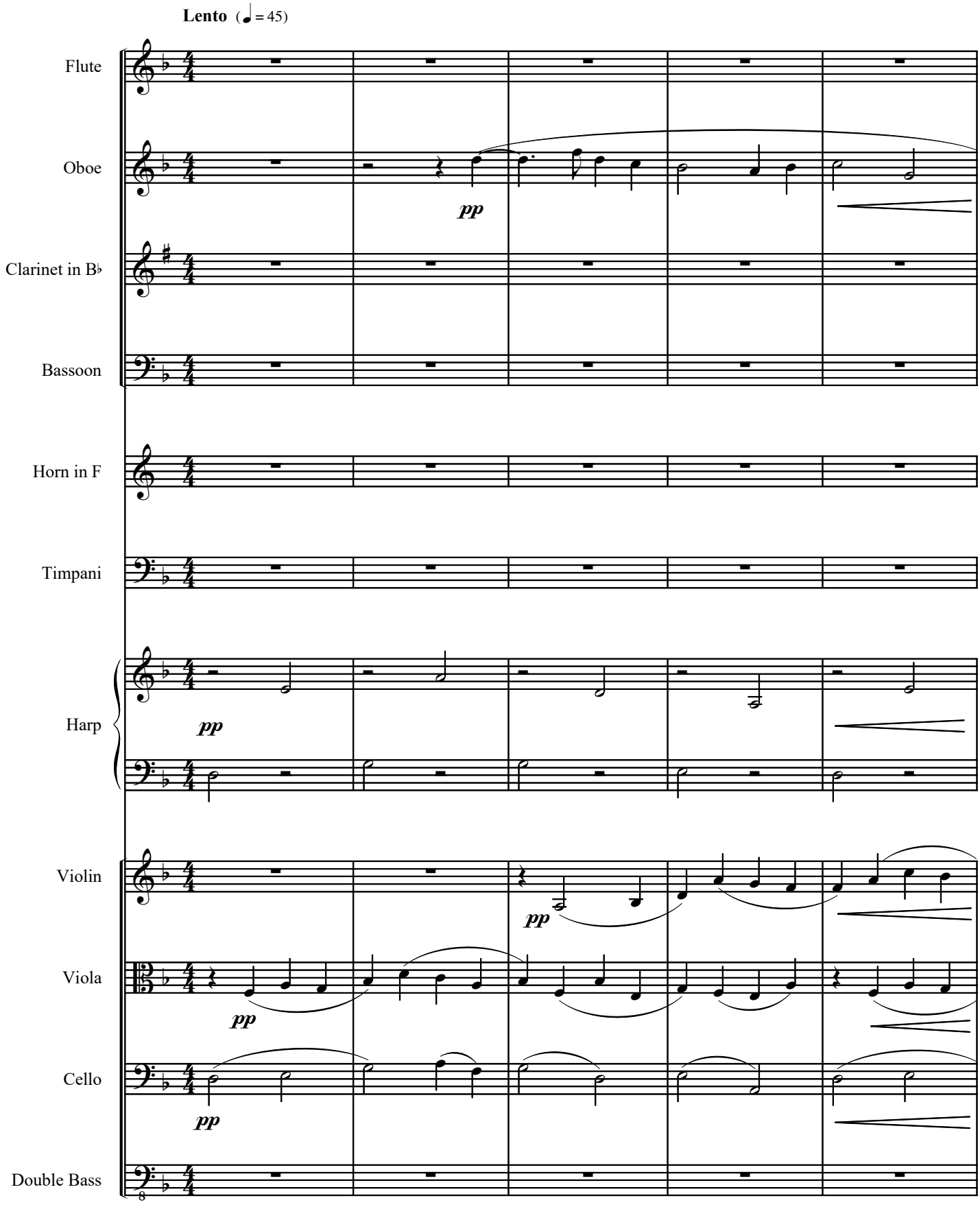
Kit O'Saoraidhe

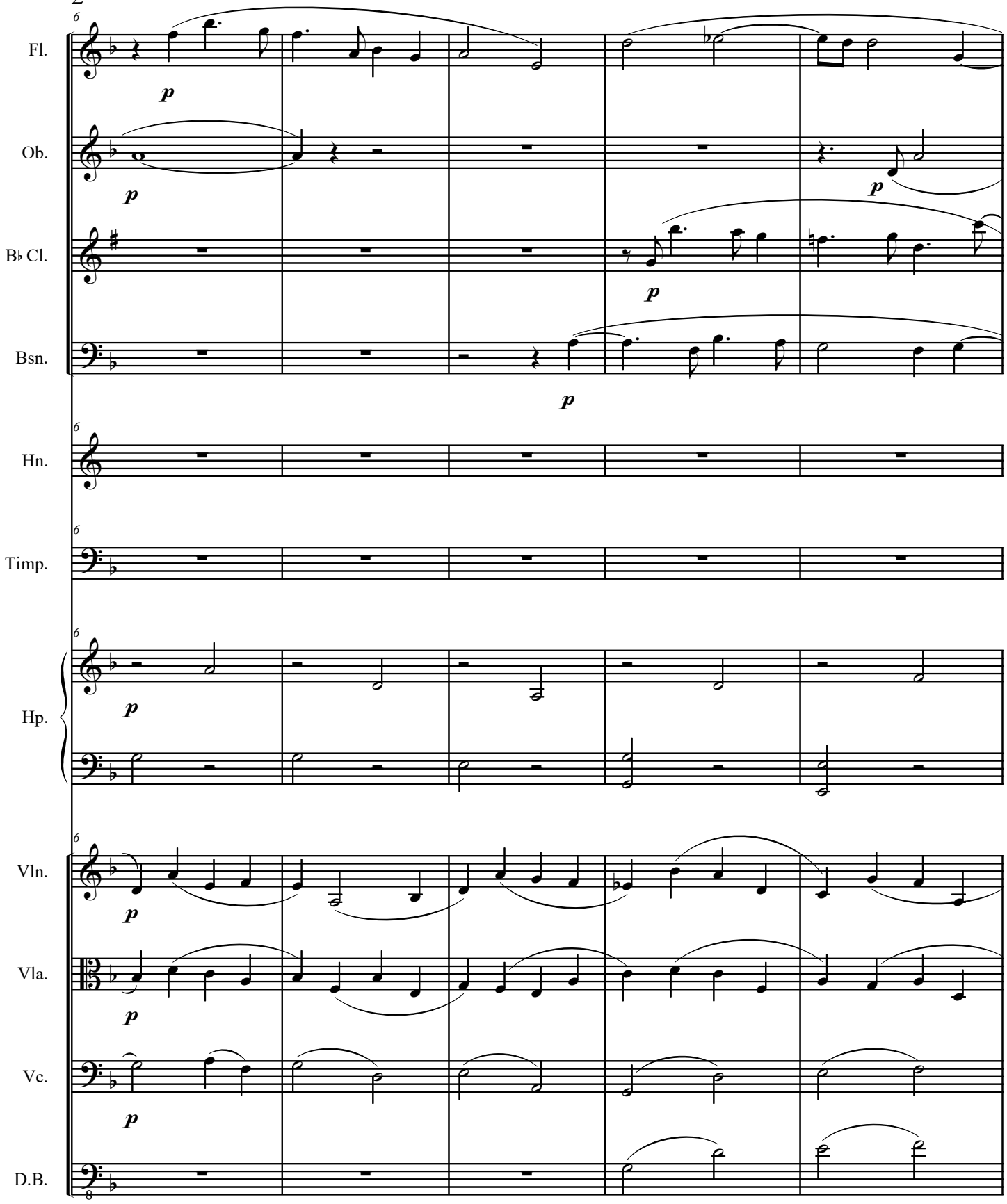
For Tiniko

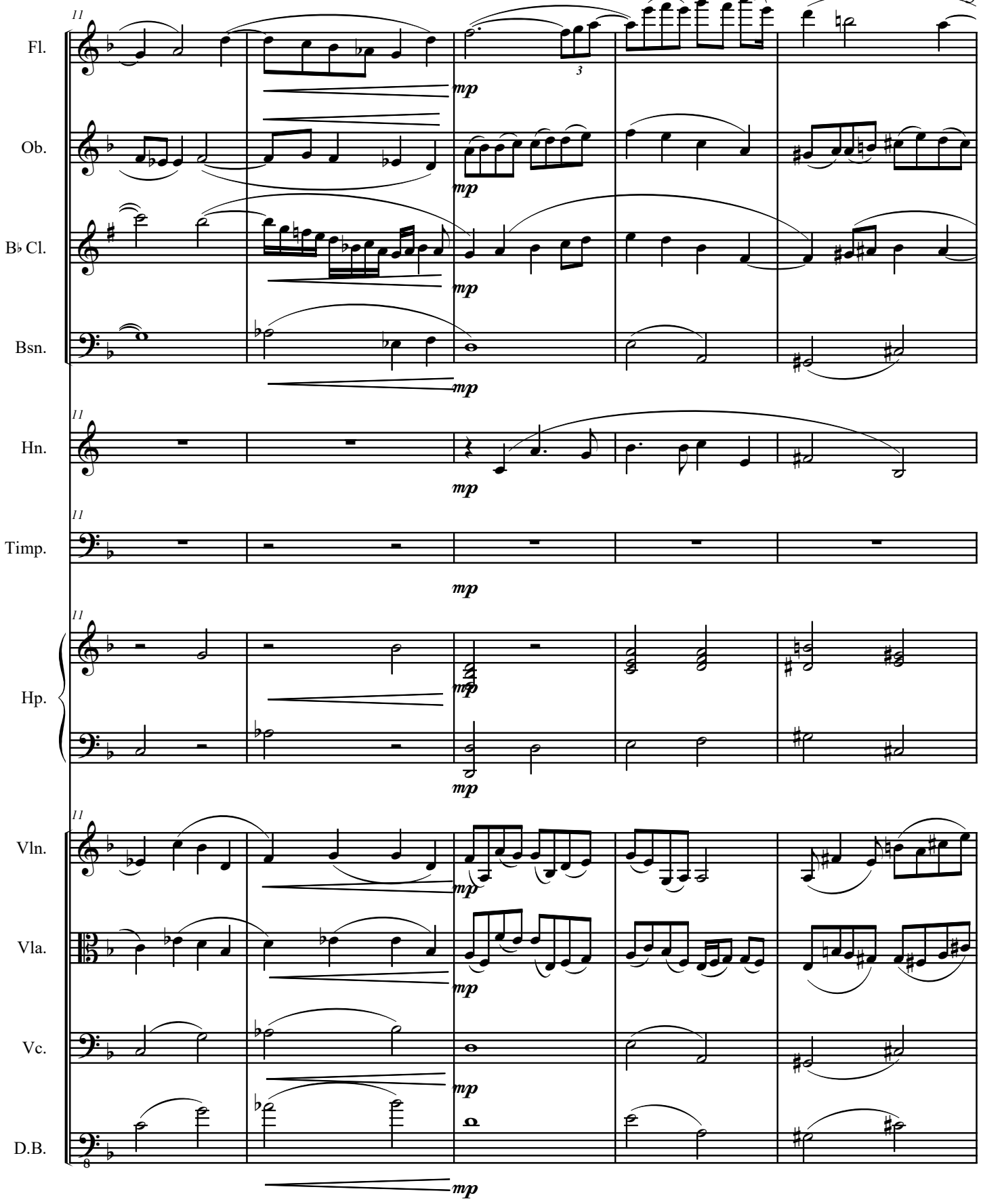
Score

Lacrimosa

Kit O'Saoraidhe (2013)




Fl.
Ob.
B♭ Cl.
Bsn.
Hn.
Timp.
Hp.
Vln.
Vla.
Vc.
D.B.
p


Fl.
Ob.
B♭ Cl.
Bsn.
Hn.
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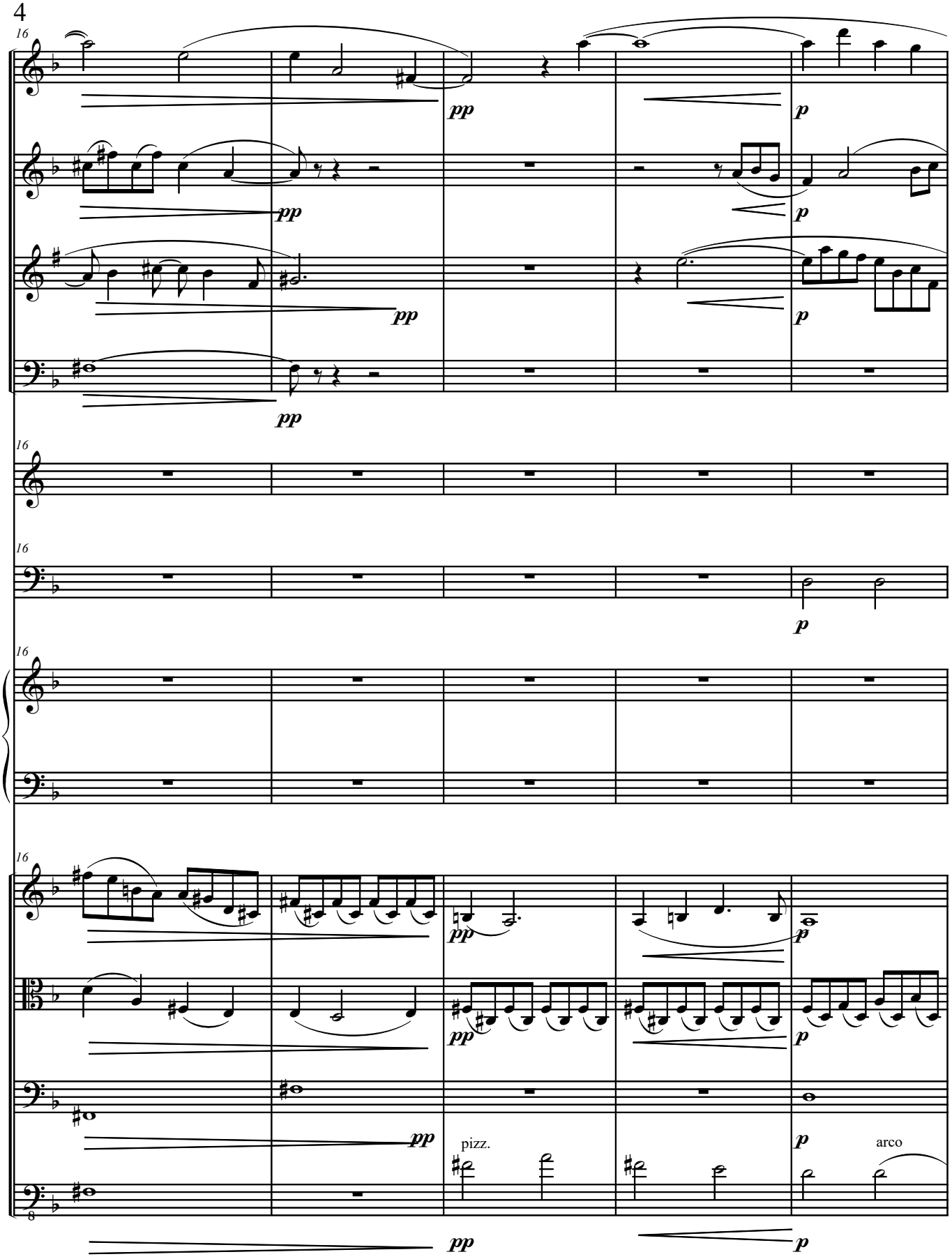
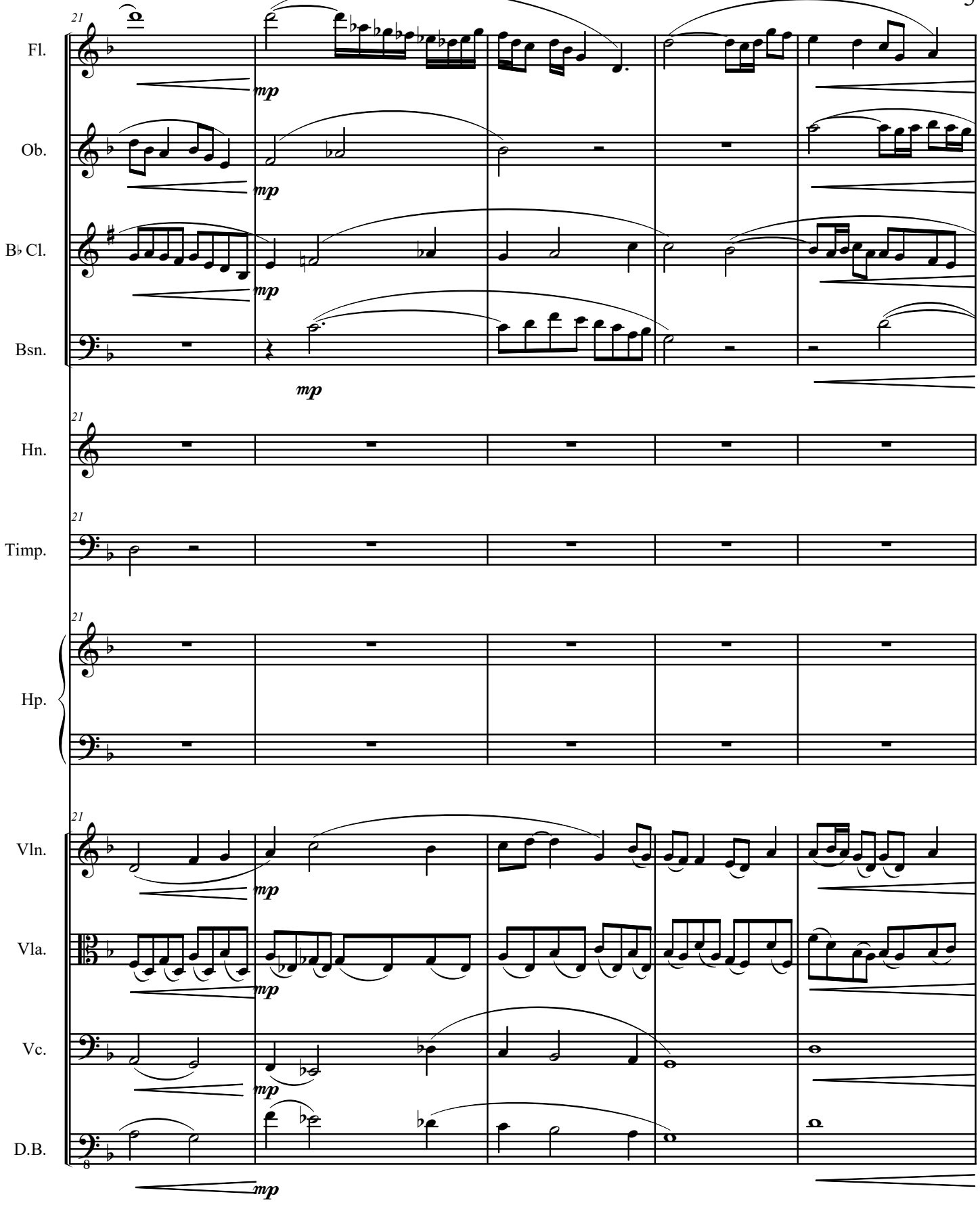
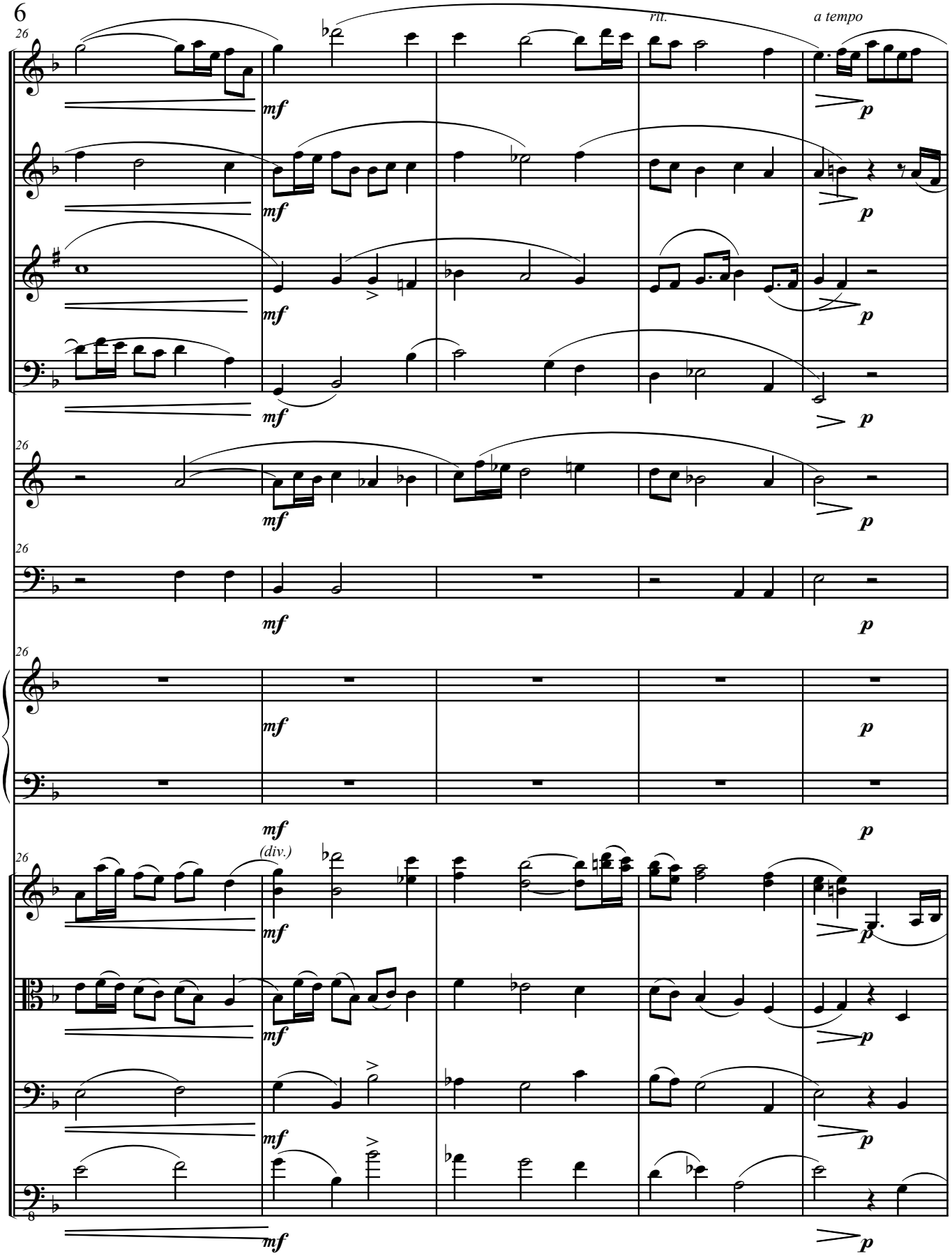
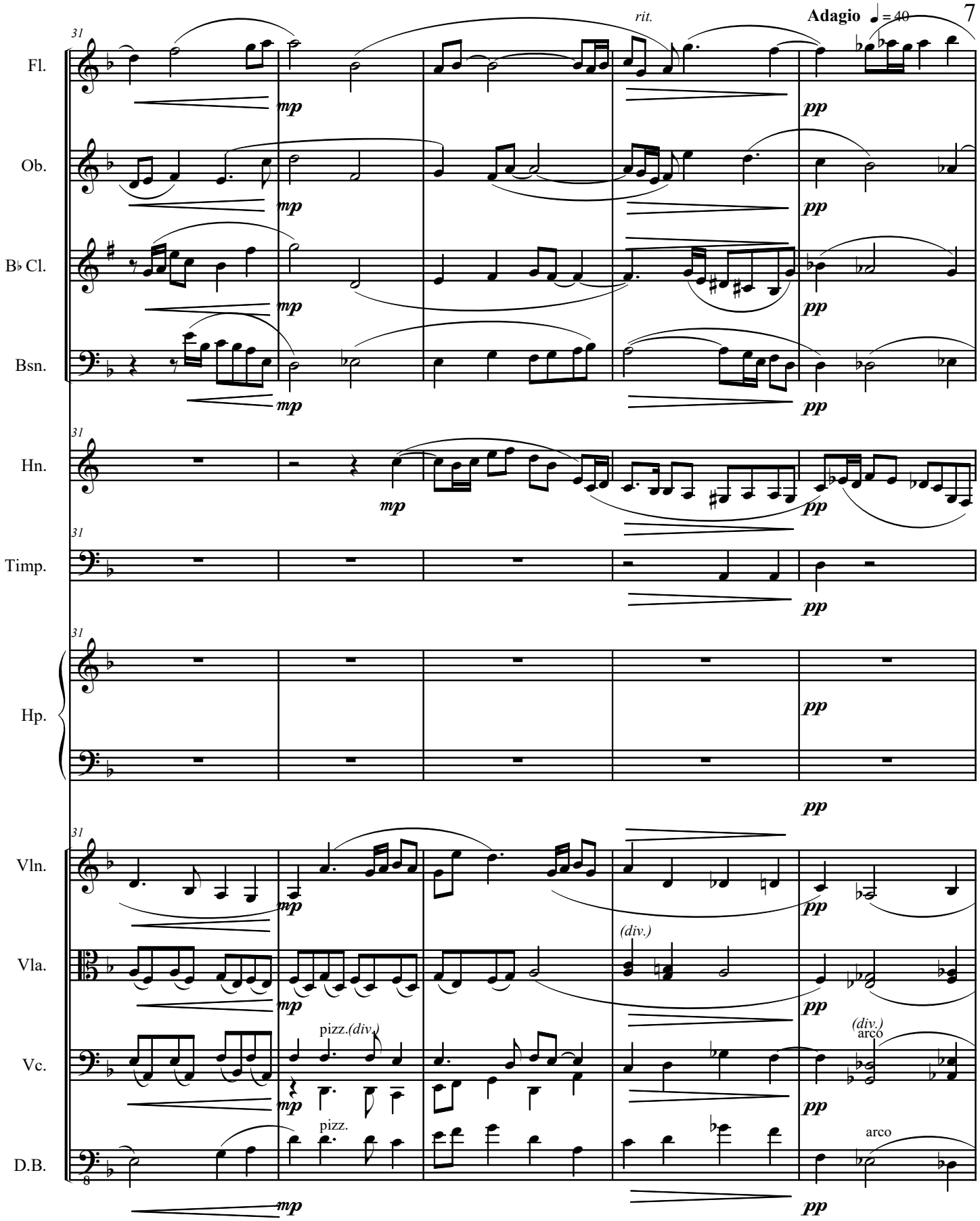
Vc.
D.B.
11
mp
3
8

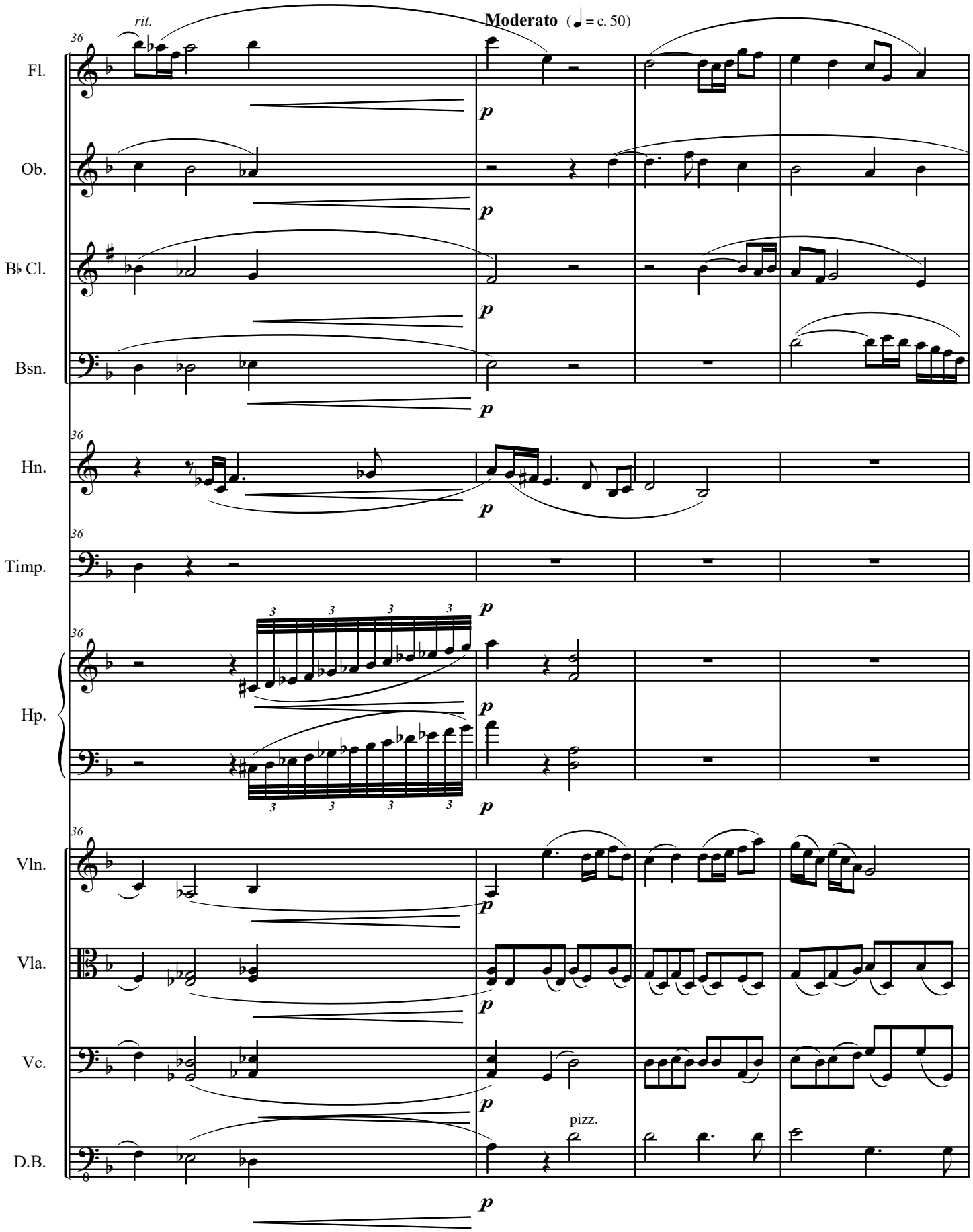

16
Fl.
Ob.
B♭ Cl.
Bsn.
Hn.
Timp.
Hp.
Vln.
Vla.
Vc.
D.B.
pp
p
pizz.
arco

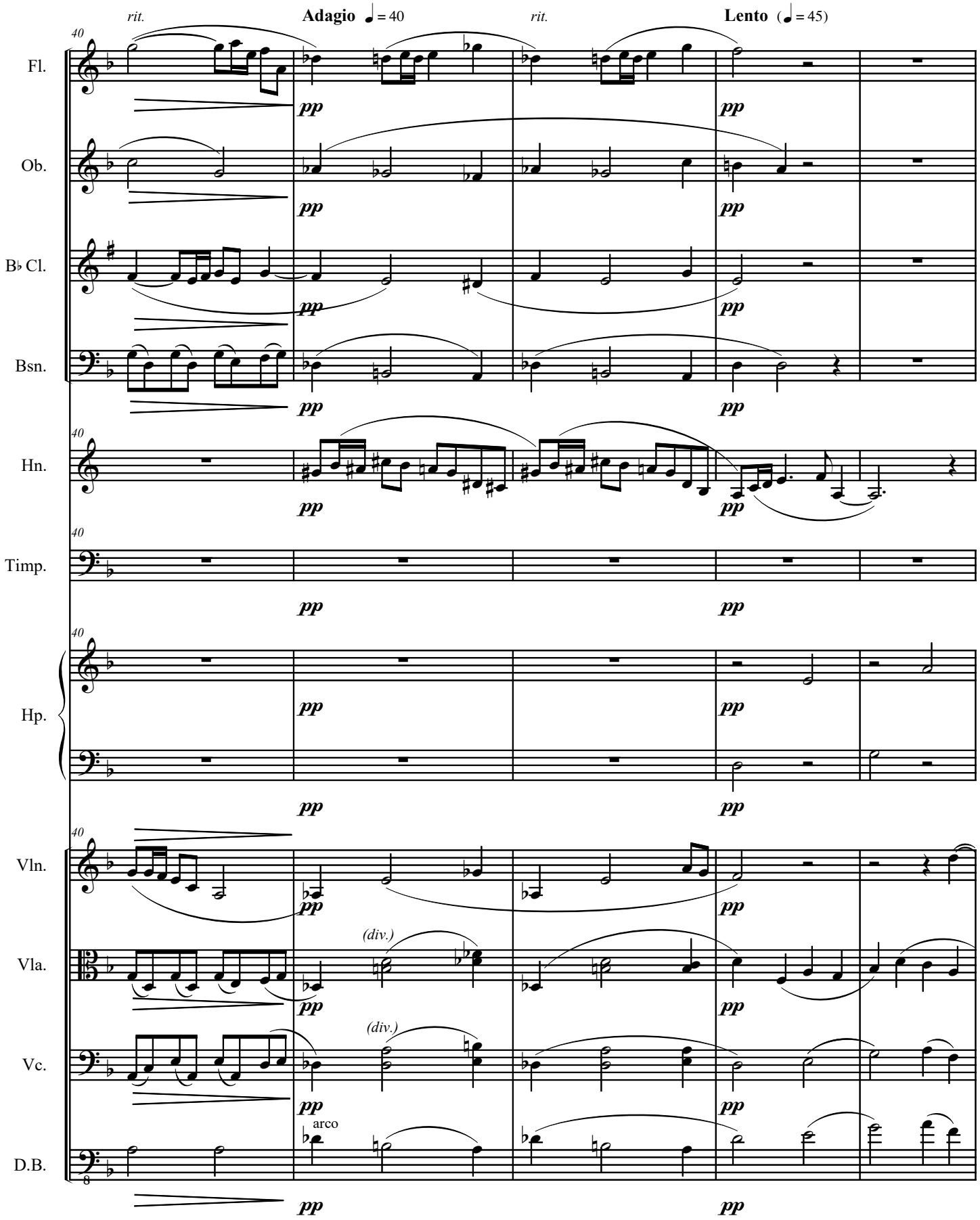

21
Fl.
Ob.
B♭ Cl.
Bsn.
Hn.
Timp.
Hp.
Vln.
Vla.
Vc.
D.B.
mp

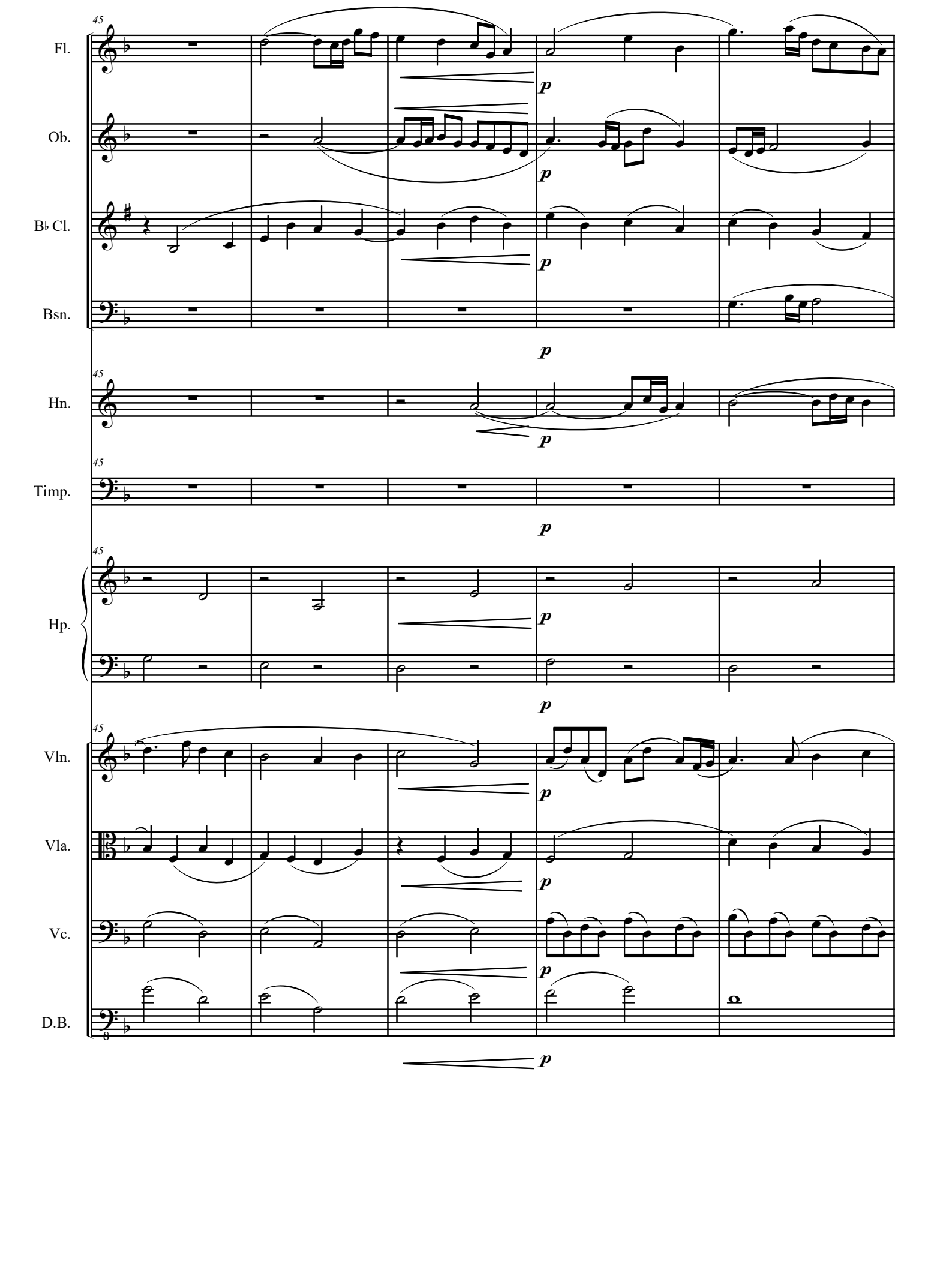
Lacrimosa

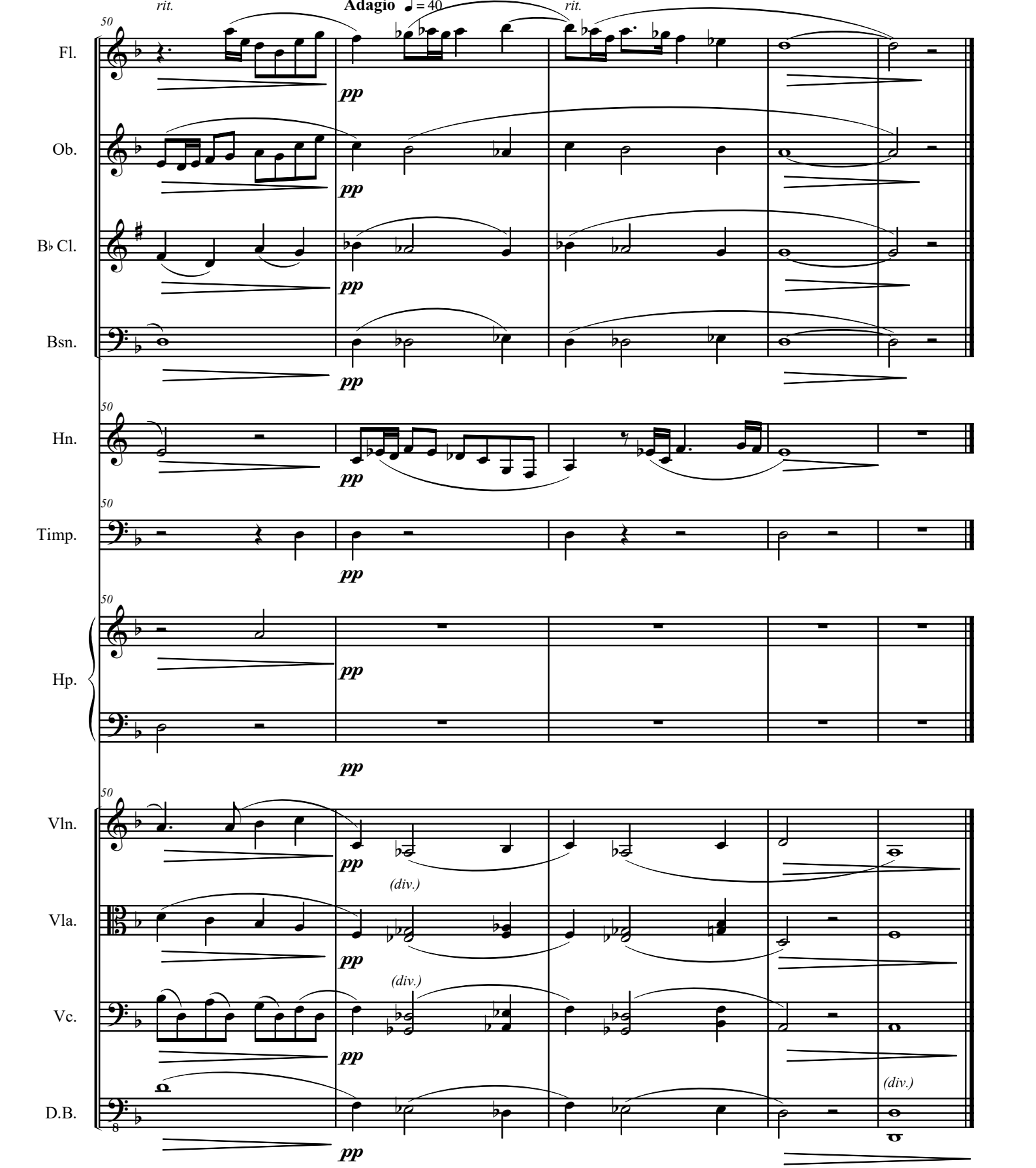



Adagio ♩ = 40
rit.
31
Fl.
Ob.
B♭ Cl.
Bsn.
Hn.
Timp.
Hp.
Vln.
Vla.
Vc.
D.B.
mp
pp
(div.)
pizz.
arco


rit.
Moderato (♩ = c. 50)
36
Fl.
Ob.
B♭ Cl.
Bsn.
Hn.
Timp.
Hp.
Vln.
Vla.
Vc.
D.B.
p
pizz.


rit.
Adagio ♩ = 40
rit.
Lento (♩ = 45)
Fl.
Ob.
B♭ Cl.
Bsn.
Hn.
Timp.
Hp.
Vln.
Vla.
Vc.
D.B.
40
pp
(div.)
arco


45
Fl.
Ob.
B♭ Cl.
Bsn.
Hn.
Timp.
Hp.
Vln.
Vla.
Vc.
D.B.
p


rit.
Adagio ♩ = 40
rit.
50
Fl.
pp
Ob.
pp
B♭ Cl.
pp
Bsn.
pp
50
Hn.
pp
50
Timp.
pp
50
Hp.
pp
50
Vln.
pp
(div.)
Vla.
pp
(div.)
Vc.
pp
(div.)
D.B.
8
pp

Poetry

by

Lao-Tzu 500bce

John McGuire

Late T. G. "Tong" Hadley

Wisdom of ancient Master

Tao Te Ching

Lao-Tzu 500bce

She who is centered in the Tao
can go where she wishes, without danger.
She perceives the universal harmony,
even amid great pain,
because she has found peace in her heart.

Music or the smell of good cooking
may make people stop and enjoy.
But words that point to the Tao
seem monotonous and without flavour.
When you look for it, there is nothing to see.
When you listen for it, there is nothing to hear.
When you use it. It is inexhaustible.

AUTUMNAL AND VERNAL: A CONTRAST

The foliage now looks quite enticing
As the autumnal equinox brings more exciting
Manifestations of color among the leaves
Peak season—no one can reverse
Should we not deal with the matter of peace
Instead of having a gunpiece in our hands?
Let's not forget; we would not have the United States
If some bloodletting had not taken place
If British lobster backs and American colonists hadn't died
As well as some Hessian mercenaries, who just
Wanted more beer and skittles
Rather than fighting the English-sprachıng population
(Now German-Americans, ironically, are the biggest
Non-colored ethnic population in the United States.)

The vernal equinox comes with certain ramifications
The warming of day, the prolongation of sun
But can also come with some unexpected developments
The springing of new life, the absence of old
The rain falls, a concentrated syncopation of nature
Bringing liquid relief to an earth parched
By the encroachments of increasingly dry winters
The multifarious concatenations of varied existences
Come into sharp relief after vernal equinox's assumption
Of hegemony over our earthly existence in this hemisphere
Or are we simply fooling ourselves in the midst
Of the Anthropocene Era, where we possess final control?
A question that must be surely pondered, sooner than later.

John McGuire

An Elderly Denizen

An elderly denizen
Approaches
Ensconced
In a steel wheelchair
Trundling down
The asphalted esplanade
His helper pushing
forward with
Hard-secured, yet
Experienced ease
As the enameled waves
Rise from the vortices
fomented by the unruly
Nearby sea.

John McGuire

The Bleeping Cosmic Sandwich – A Sonnet

The Physicists insist we are sandwiched
Amidst complex, mixed probabilities.
To observe's to fix a frequency; once, which
So done, becomes discrete Reality.

One perceives as one has predilection;
To disregard, or fully recognize,
A Concept valid, or misdirection:
To preconceive is not to realize.

Abandon all that's Known, just heave the mess!
The Mystery will lead us thread by thread
Becoming, then, a skein of Consciousness,
A Living Fabric, not graven stone-dead.

The Divine is found to be Manifest
When we seek to Learn, Hubris to detest.

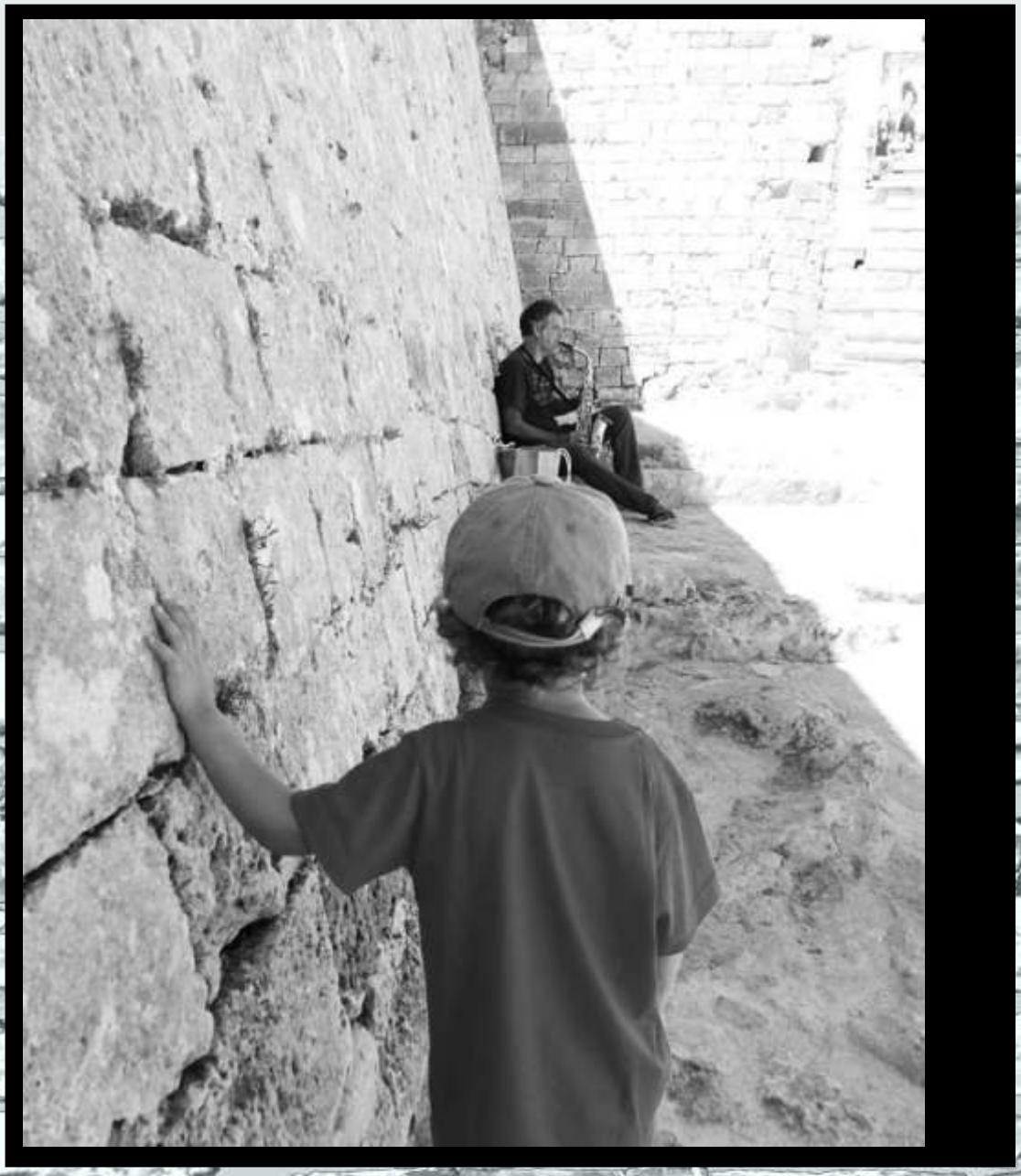
SGoA

J M Cervenka

J M Cervenka

David Udbjorg

David Udbjorg



Xavier Jouve

Xavier Jouve

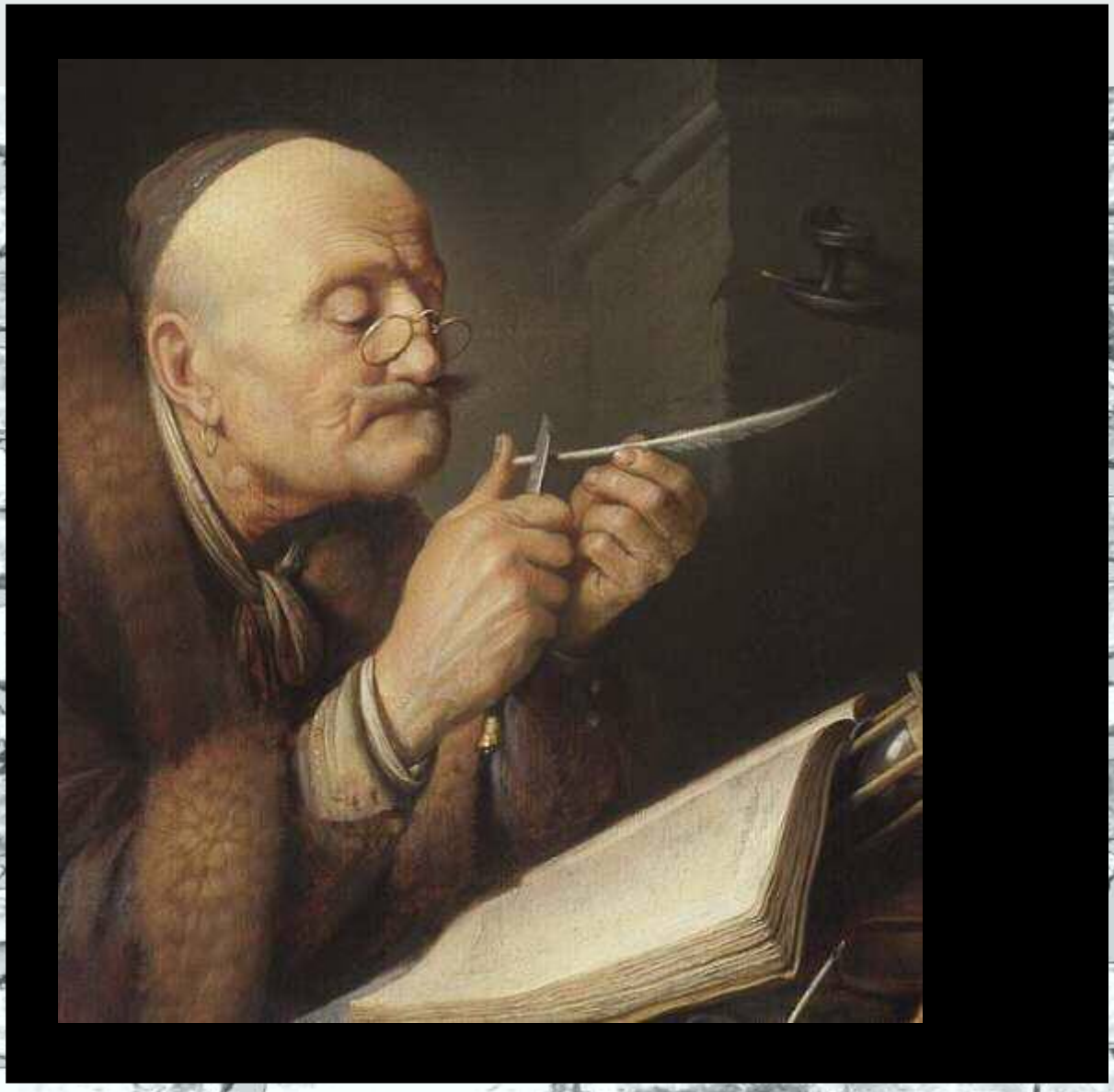
Mark van Vuuren

Mark van Vuuren

Marilyn Grimble

Marilyn Grimble

watercolor



Art from the past
Gerrit Dou 1633

Jase Mann

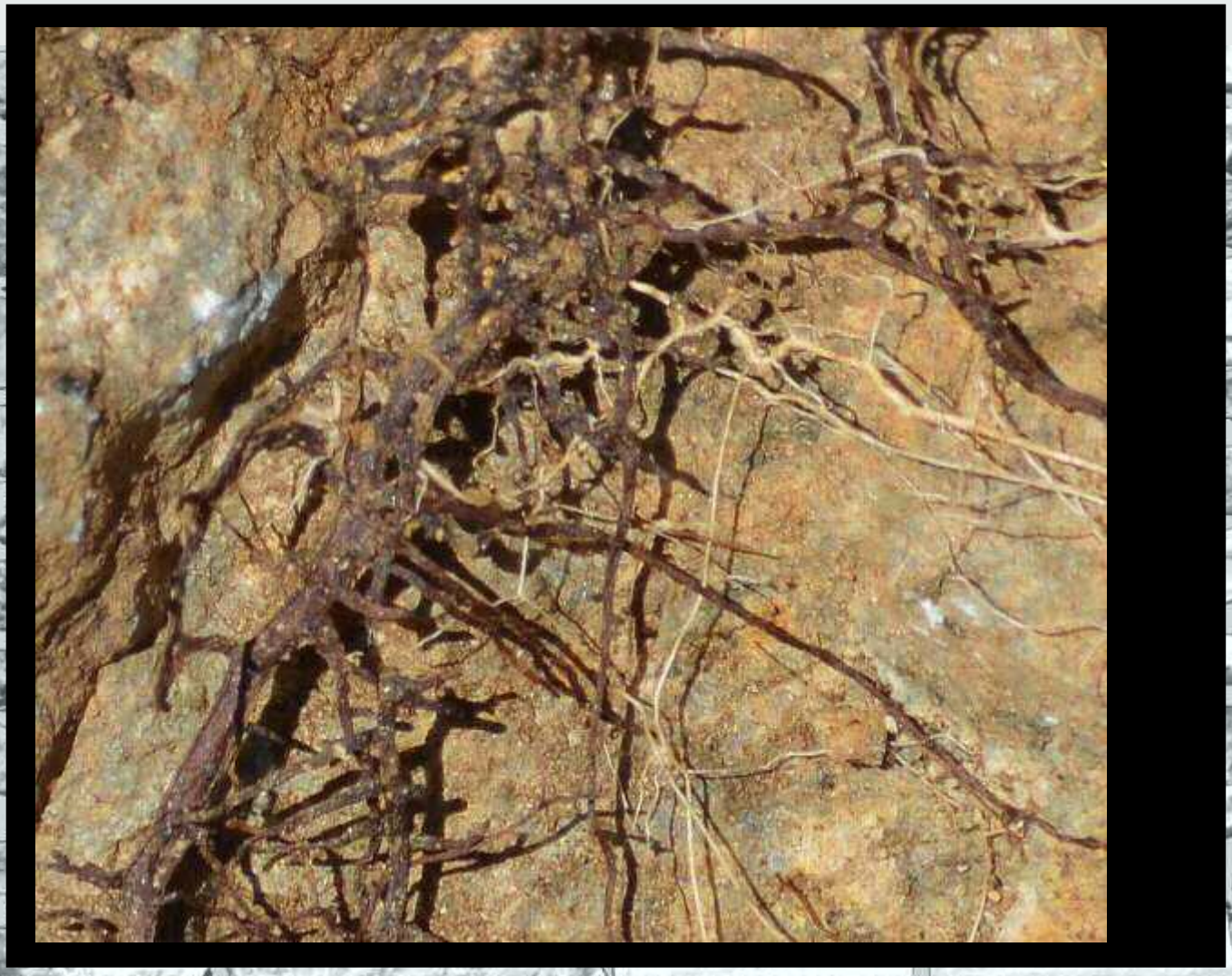
Jase Munn

Johnathan Machler

time piece

Johnathan Machler

moon trail



Stan Riha

Stan Riha

Puzzles, Riddles & Brainteasers

Next three months calendar

High Range IQ Tests

Travel through mind's labyrinth

Theodosis Prousalis

presents

High Range IQ Tests Contests for 2019 at;

https://hriqtests.com/contests/

– CPE38 2019 - running until May 31st, 2019
– CPE-V 2019 - running until August 30th, 2019
– CPE-A 2019 - running until September 30th, 2019
– CPE-N 2019 - running until December 31st, 2019

and new

International Numerical Sequences Contest 2019 at;

https://hriqtests.com/insc-2019/

running until December 31st, 2019
including prices for 1st to 11th position

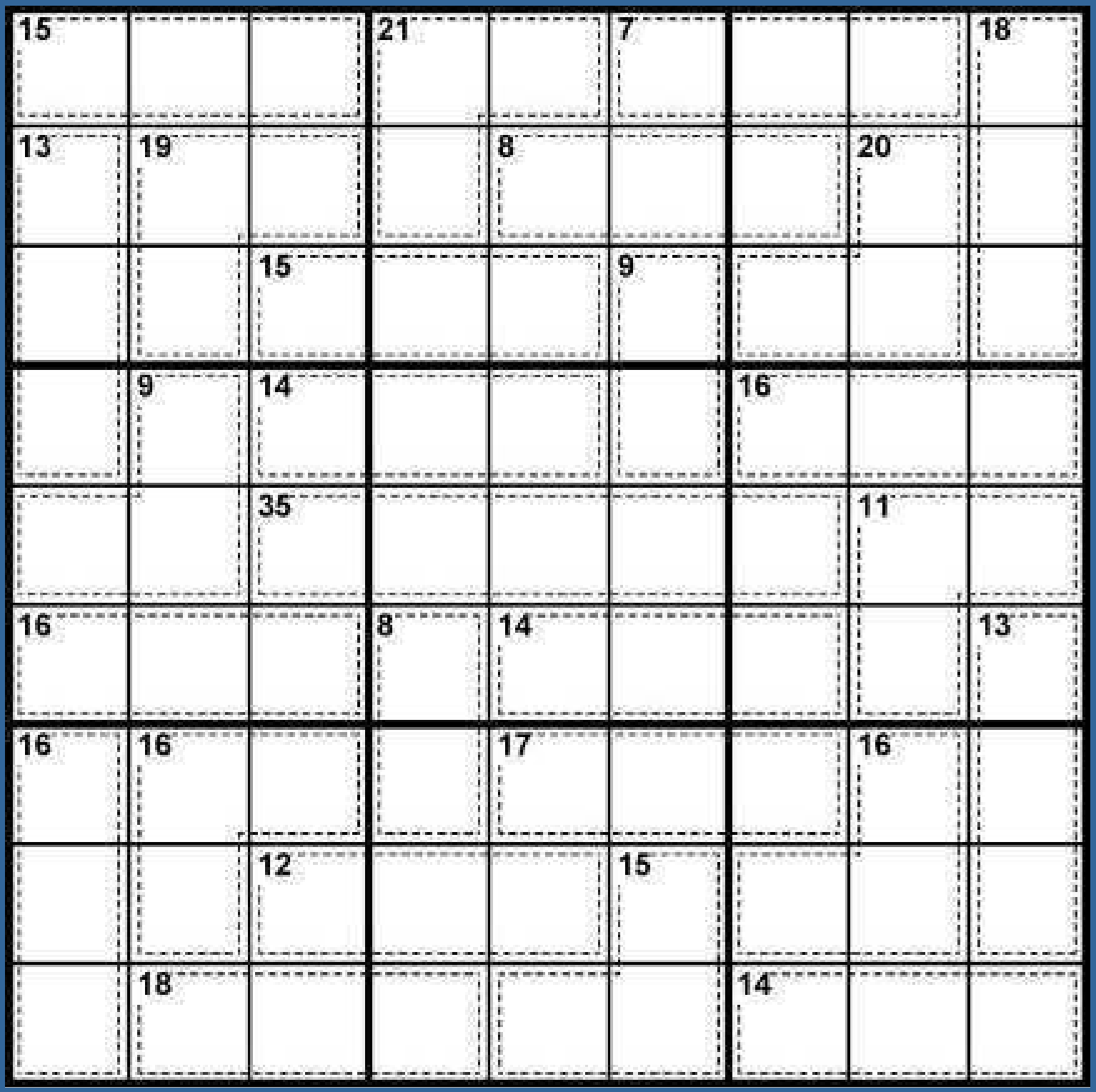
The description and necessary informations are on the website https://hriqtests.com/

Solution of killersudoku from IQ Nexus Journal Issue 11 Vol. no. 2

9 5	11 8	3	16 7	9	11 4	6	1	18 2
4	22 2	30 9	6	8	1	5	3	7
4 1	6	7	6 5	18 2	3	8	15 9	4
3	9	9 6	1	5	30 7	12 4	2	11 8
15 8	5	1	9	4	2	7	22 6	3
7	20 4	2	8	14 3	11 6	1	5	15 9
9	7	8	2	1	5	26 3	4	6
16 2	1	4	3	6	8	9	7	6 5
6	12 3	5	4	16 7	9	10 2	8	1

Rules

As in regular sudoku, every cell in each row, column, and nonet must contain a unique digit. In other words, each row, column, and nonet must contain all the digits from one to nine.
The values of the cells a cage must sum up to the total for that cage.
The values of the cells in a cage must be unique.



Solution to this puzzle will be published in the next issue of the IQ Nexus Journal

Analogies:

1. Lawyer:Banker::Suit:?
2. Dollar Sign:Barcode::Cello:?
3. Cinema:Cave::Patron:?
4. Scissors:Rock::Paper:?
5. F*** off:Chicken::Potato Potato Potato..:?
6. Universe:World::Verse:?

Johnathan Machler

IQ Nexus Journal Calendar

David Udbjorg

yourshot.nationalgeographic.com/profile/674347/

2019

Online Calendar of IIS, IIQ & ISI-S Societies, members of WIN

October

Fine young cannibal - Papua

September						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

2019

November						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5 ◐
6	7	8	9	10	11	12
13 ○	14 Thanksgiving Day	15	16	17	18	19
20	21 ◑	22	23	24	25	26
27 ●	28	29	30	31 Halloween		

November

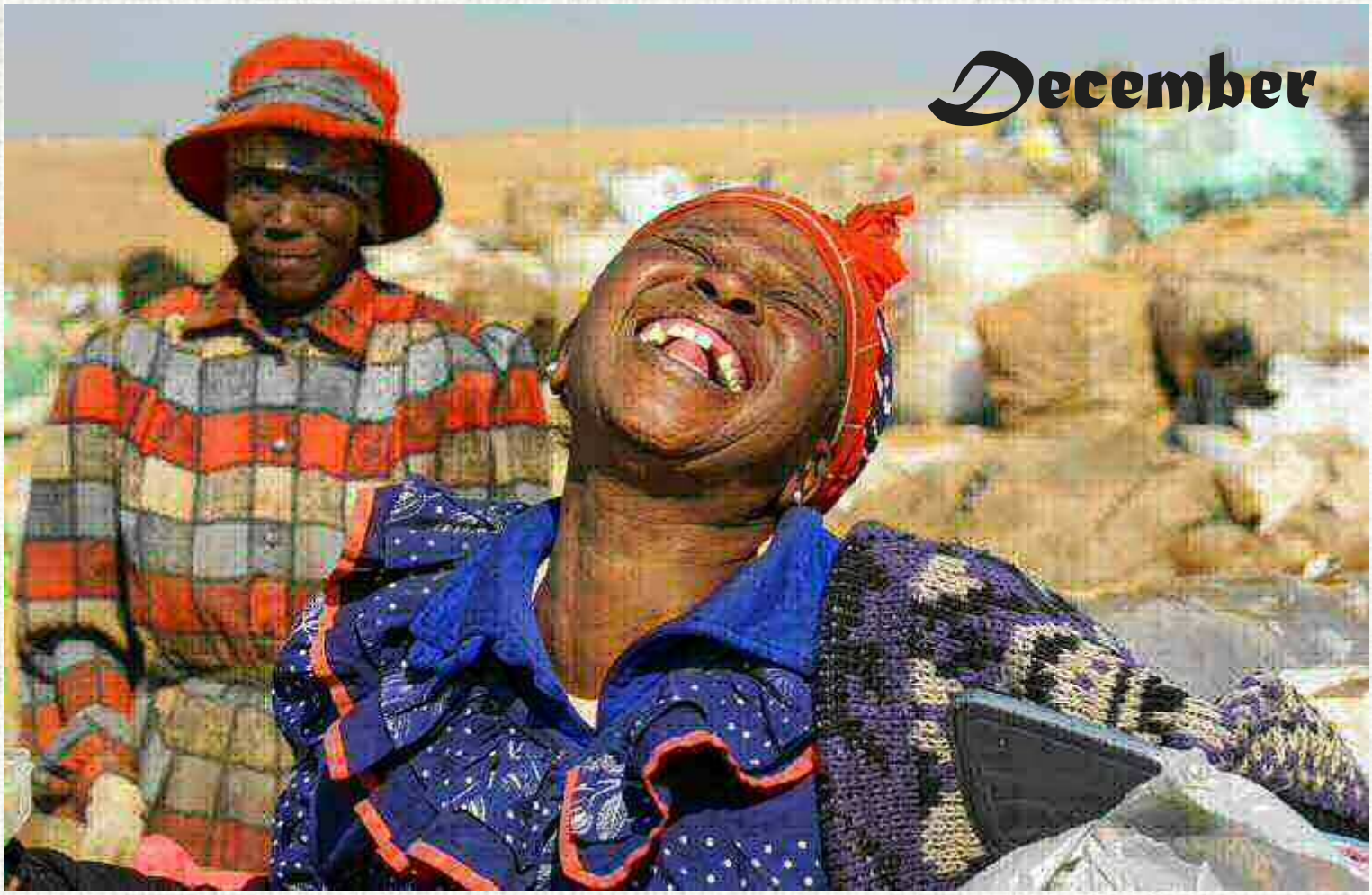
Zulu dancers

October						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

December						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4 ◐	5	6	7	8	9
10	11 Remembrance Day	12 ○	13	14	15	16
17	18	19 ◑	20	21	22	23
24	25	26 ●	27	28	29	30



December

Oh Lord wouldn't you? - Garbage dump, Pretoria

2019

November

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

January

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

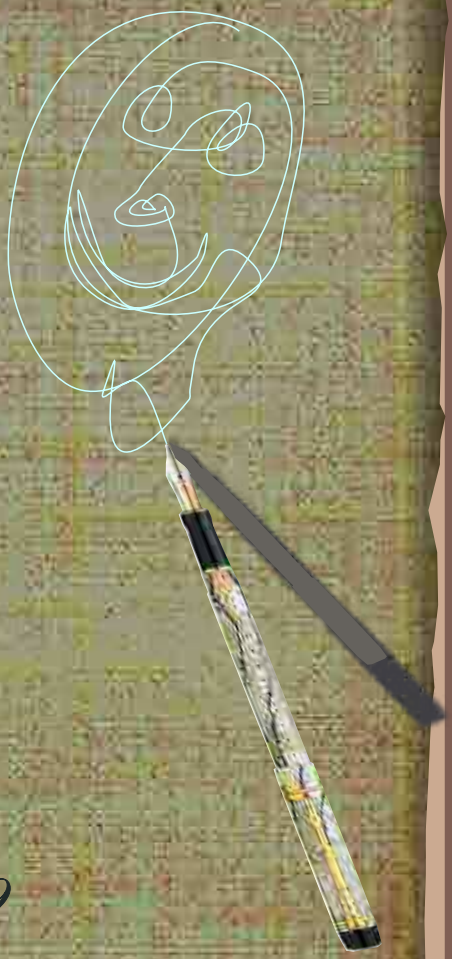
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3 ◐	4	5	6	7
8	9	10	11 ○	12	13	14
15	16	17	18 ◑	19	20	21
22	23	24 Christmas Eve	25 ● Christmas	26 Boxing Day	27	28
29	30	31 New Year's Eve				

Representative products and gifts for the epiq, IQ Nexus and Isi-s members and friends.

http://www.cafepress.ca/IQNexusShopping
http://www.cafepress.com/ISISproducts
http://www.cafepress.ca/epiqproducts

Profits from purchases help to cover web service fees.

IQ Nexus



Forum of ePiq, IIS & IISI-S societies
presents award of excellence in arts and science
for contribution to
IQ Nexus Journal Vol. 11, No. 2/2019
to

Louis Sauter
Xavier Jouve
David Udbjorg
Mark van Vuuren
Jason Munn
Kit O'Saoraidhe
Jaromir M Cervenka
Vernon M. Neppe
Surendra Pokharna
Marilyn Grimble
John McGuire
Edward R. Close
T.G. "Torq" Hadley
Theodosis Prousalis
Johnathan Machler
Stan Riha

Publisher / Graphic Editor - Stan Riha; English Editor - Jacqueline Slade; Web master - Owen Cosby