#### ARTICLE 16

# The Tone Intervals of the Seven Octave Species & Their Correspondence with Octonion Algebra and Superstrings

by

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"The first and noblest application of music is in offering the tribute of praise to the immortals; the next is the purifying, regulating and harmonizing the soul."

Plutarch

#### Abstract

The likelihood that the ancient Egyptians passed on their knowledge of the seven types of musical scales to Pythagoras. Plato and others who studied with them makes the currently accepted view that the musical modes of ancient Greece were keys rather than octave species highly implausible. The ten Hebrew Godnames known to Kabbalah are found to prescribe the intervallic composition of these scales. Both Plato's Lambda and the first four polygons enfolded in the inner form of the Tree of Life embody the minimum number of different intervals between the notes of the seven modes. Remarkable parallels between the intervallic composition of the latter and the tetrahedral generalisation of the Lambda are demonstrated. There is similar correspondence with the oscillatory form of the superstring. This is because superstring theory is connected to the mathematics of octonions, whose properties are analogous to musical intervals. Remarkable correspondence exists between the 168 permutations of the seven 3-tuples of octonions, the 168 automorphisms of the Klein Quartic, the 168 repetitions of the diatonic intervals of the seven octave species and the superstring structural parameter 168. They indicate that the oscillations performed by superstrings are akin to music played with the notes of the seven musical scales.

#### I. Ancient Greek musical modes — octave species or keys?

Controversy has persisted to this day over the issue of whether the ancient Greeks classified their different types of music according to keys or to octave species. Did the names Dorian, Phrygian, Lydian, etc. refer to specific keys conferring a distinct moral characteristic, or ethos, or were these qualities of music due to their being played in scales that differed in the ordering of what we would now call their tones and semitones? The former view is the more accepted today. For example, Rita Steblin, the world-renowned musical scholar, states "The ancient

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of Fifteenth-Century Music Anna Maria Busse Berger, Jesse Rodin, 2015-07-16 Through forty five creative and concise essays by an international team of authors this Cambridge History brings the fifteenth century to life for both specialists and general readers Combining the best qualities of survey texts and scholarly literature the book offers authoritative overviews of central composers genres and musical institutions as well as new and provocative reassessments of the work concept the boundaries between improvisation and composition the practice of listening humanism musical borrowing and other topics Multidisciplinary studies of music and architecture feasting poetry politics liturgy and religious devotion rub shoulders with studies of compositional techniques musical notation music manuscripts and reception history Generously illustrated with figures and examples this volume paints a vibrant picture of musical life in a period characterized by extraordinary innovation and artistic achievement Latin and Music in the Early Modern Era Robert Forgács, 2021-05-31 Situating the close relationship between Latin and music within its historical context this volume presents an overview of Latin and music in the educational system of the time schools choir schools and universities and the development and pervasive influence of musical humanism This influence is seen primarily in the writings of music theorists the documents of dedication found in music publications and above all in the settings of classical and Neo Latin texts as well as in some liturgical and extra liturgical ones Discussion of this repertoire forms the centre of the volume The emphasis is on practical matters the study of Musical Signification Eero Tarasti, 2011-09-06 Latin and music and the music s composition performance and reception No detailed description available for Musical Signification The Scientia artis musice of Hélie Salomon: Teaching Music in the Late Thirteenth Century Joseph Dyer, 2018-01-12 H lie Salomon's Scientia artis musice 1274 is a practical manual devoted to basic concepts psalmody vocal pedagogy the musical hand in singing clefs as indicators of the tone mode to which a piece belongs and practical instruction in the singing of four voice parallel organum Joseph Dyer presents the first much needed modern edition of Salomon's treatise accompanied by a full English translation comprehensive introduction and commentary This edition corrects errors in the 1784 edition of Martin Gerbert includes the music of chants omitted by Gerbert from the tonary and makes available reproductions in colour of the eight illustrations in the treatise Boethian Number Theory Michael Masi, 2024-01-08 Sign A b2 4 s B C p4 s D p2 s Musica Ficta Karol Berger, 2004-01-05 Clarifies the conventions governing the practice of implied accidentals in vocal polyphony from the fourteenth to sixteenth centuries

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