

Hans Cousto

# ***The Cosmic Octave Tuning Forks***



Planetware

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## Introduction

*«Abstract sound as defined by the Sufis 'Saute Surmad', means: the whole universe is filled with it. Sufis call the primal sound 'Saute Surmad', the tone that fills the cosmos. The frequencies of this tone are too fine to be seen with the eyes or heard with the ear... It was 'Saute Surmad', the tone of the abstract which Muhammad perceived when he was enlightened in the cave of GareHira. The Koran also knows the sound that says: 'Let there be...'. Moses heard the same sound on the mount Sinai in his union with god, the same word became obvious to Jesus when he was in union with the heavenly father in the wilderness. Shiva heard the same 'Anahad Nada' in her Samadhi in the caves of the Himalaya. The flute of Krishna is the symbol of this tone. This sound is the source of all manifestation, given to the masters from within.. «The knower of the mystery of sound knows the mystery of the whole universe.»*  
Hazrat Inayat Kahn

There is hardly a society with there is no report of the universal sound or of the spheric harmonies. In East India the beginning of all things is 'Nada', the primal tone. They speak of 'Nada Brahme', which means: the world is sound. In India and Tibet the eversounding tone is the OM. The syllable OM is the holiest mantra there is, and is also the symbol of the primal frequency of existence.

In ancient Greece there were many reports of the spheric sound. So Plato writes at the end of the 13<sup>th</sup> book of the law: *«Every figure, every row of numbers and every assemblage of harmonious sounds, and the accordance of the cycles of the celestial bodies and the One as an analogy for all which is manifesting itself must become exceedingly clear to him who is searching in the right manner. That of which we speak will however come to light if one strives to recognize all, while not losing sight of the One. It is then that the connecting link of the ones named will come to light.»*

The connecting link is the law of the octave. Through systematic application of this law to all the period phenomena, it is possible to listen to the relation of the vibrations of the planets and also to the structures of the different atoms and molecules. In this handbook we want to confine ourselves to the periods of our solar system and open the way into the harmonies of the spheres.

In 1946 Hermann Hesse received the Nobel prize in literature for his book: The Glass Bead Game. The principles of the Glass Bead Game are: *«... a new language, a sign and formula of which mathematics and music equally partake, enabling one to combine astronomical and musical formulas, a common denominator for mathematics and music.»* The law of the octave is this principle where mathematics and music equally partake. This law makes it possible to combine astronomical and musical formulas. It is the common denominator of astronomy, mathematics, music and colour.

Through the law of the octave it is possible to convert the whole solar system into sound. The number of octaves gives you the 'scale'. In the same way the scale on a map helps you to visualize the landscape, the law of the octave demonstrates relationships. The base sounds in this booklet are calculated purely on mathematics and physics and show the scientific base of an old mystical lore. Each step is successive, you can recalculate it, you don't have to take it on faith. These primal sounds are based on a genuine mathematical foundation but *«they unite all three principles: science, veneration of beauty and meditation.»*

Hermann Hesse writes further on in the Glass Bead Game: *«I suddenly realized that in the language, or at any rate in the spirit of the Glass Bead Game, everything actually was all-meaningful, every symbol and combination of symbols led not to single examples, experiments and proofs, but into the center, the mystery and innermost heart of the world, into primal knowledge. Every transition from major to minor in a sonata, every transformation of a myth or a religious cult, every classical or artistic formulation was, I realized in that flashing moment, if seen with a truly meditative mind, to be nothing but a direct route into the interior of the cosmic mystery, where in the alternation between inhaling and exhaling, between heaven and earth, between Yin and Yang, holiness is forever being created.»*

The primal sounds in this booklet are acoustical exponents from our natural cosmic surroundings and our focus on them brings us into harmony with the way of thing or, as the Chinese say, in harmony with «Tao» (the way).

Being one means being one with the all. To perceive the vibrations and to reverberate with them means to bring your life - or simply yourself - in tune with the all.

When the person (Latin: per-sonare), is in tune with the cosmos, then the cosmos is resonating in the person. When you become aware of this consciousness reaches cosmic dimensions. Because of the universal significance of those sounds it is possible to use them in various areas. Therefore it is possible to create a precise cosmically tuned meditation music, which is more profound in its effects than normally tuned music. The same is true of the medicinal therapeutic music. The way these basic sounds function will be explained in the forthcoming pages.

These tones are also the base for a musical setting of a horoscope. Only when horoscope music is in tune with these tones does it give a physically and musically true sound image of the given astronomical constellations.

Another area for use is tonepuncture (=tone- acupuncture, also known as Phonophorese). In this case you hold the tuningfork on the acupuncture points and the vibrations flow through the meridians.

### ***The Frequency of the Earth-day***

tone:	194.18 Hz, G
pitch data:	equivalent chromatical a <sup>1</sup> = 435.9 Hz difference to 440 Hz. = - 16.1 cent
tempo:	91.0 bpm (beat per minute)
color:	orange-red
chakra:	base (intestines / kundalini)
effect:	dynamic, vitalizing (medicinal: tonifies)

The tone 'G' with 194.18 Hz is the 24<sup>th</sup> octave of one earth day. That means the following: the tuning fork oscillates 194,18 times per second back and forth. If you duplicate this vibrations at 24 octave lower, the tuning fork would need exactly one day to oscillate back and forth. To move to a lower octave is to halve the frequency, to move up an octave is to double the frequency.

An octave is the fundamental musical interval in the general teaching of harmony. The sequence of the tones as well as the names of the tones are repeated from octave to octave.

Out of all intervals the octave causes the strongest resonance at an equal level of energy. This particular property of the octave is the reason its laws are applied not only to the band of audible oscillations but also to all periodical phenomena for example the earth's rotation or the orbits of the planets. Thus the tone G with 194,18 Hz is, according to the classical musical definition, the 'day-tone'.

The knowledge about the magical effect of the octave is an ancient one. One of the mysterious inscriptions on the capitals at the abbey church of Cluny in France says:

«Octavus Sanctos Omnes Docet Esse Beatos» - «The octave teaches the saints bliss.»

Also nature conforms to the law of the octave. Thus the electro-magnetic impulses in the earth's atmosphere are mostly exact octave frequencies to the earth's rotation. The so-called spherics, or atmospheric spherics are ephemeral, greatly lowered electromagnetic impulses in the earth's atmosphere and influence the weather. Because of the existing frequencies it is possible to tell if the weather will change in 1 1/2 to 2 days or not, whether a cold front will arrive etc.. Furthermore it has been proved that proteins molecules are influenced by certain frequencies of spherics. This is of great importance for medicine as well as for certain branches of industry like for example the printing industry (the procedure of photogravure printing). If you are tuned to the day-tone (194.18 Hz), you are tuned to the weather determining spheric frequency, as well as to the microbiological molecular area of proteins. Being tuned to that sound brings you in many respects into harmony with nature and yourself. Just think of how many different proteins we are made of and how essential they are for us!

We owe it to the English trumpet player John Shore that we have certain frequencies on hand. John Shore played in the orchestra of Friedrich Haendel, he was one of 24 musicians in the orchestra of Queen Anne and played the solo trumpet at the coronation of Georges I in 1714 and he was a member for many years of the kings band. He invented the tuning fork in the year 1711.

With a tuning fork you cannot only tune musical instruments but also yourself. You hold the tuning fork by the stem with your fingers, strike the tuning fork on your knee or on the heel of your other hand to get it vibrating. You can hold the base of the stem of the vibrating tuning fork on your body. Preferably choosing an acupuncture point because then the vibration can travel through the whole meridian. If you use the tuning fork with the frequency of 194,18 Hz you get a stimulating and tonic effect. In this way you can increase your body's vitality.

A very effective point (corresponding to the first chakra) is the coccyx. The lowest point of the spine is the beginning point of the kundalini, the power which runs through all the chakras. The stimulation of this point with the day-tone gives power to the kundalini and kindles its fire. The whole body gets energized and you feel more awake and alive, stronger and more energetic. It is advisable to use this in the morning after getting up.

A combination of the tonepuncture, as described above with colour therapy multiplies the effects of the application. Corresponding to the 'G' there is the colour orange-red with a wavelength of 700 Nanometers.

Music, which is tuned to this tone has a dynamic character, and has a stimulating and activating effect. Therefore it is suitable for dynamic group work, especially for group meditations with a dance and body expression focus.

It is good for men to use it before the sexual act, because this tone not only increases the general energy but also the tension energy, and so it can prevent a common harm, the so called premature ejaculation. Especially effective are the point 11 and 12 of the kidney meridian, which is 3 finger widths under the navel.

### ***The Frequency of the Earth-Year (OM)***

note:	136.10 Hz, C#
pitch data:	equivalent chromatical $a^1 = 432.1$ Hz difference to 440 Hz. = - 31.4 cent
tempo:	63.8 / 127.6 bpm
color:	blue-green (turquoise)
chakra:	Anahate (heart chakra)
Effect:	relaxing, soothing, balancing (medicinal: sedative)

The frequency of the year, C# with 136.10 Hz is the 32<sup>nd</sup> octave of the earth year. The corresponding colour is a turquoise, according to a wavelength of about 500 Nanometers. The base of this tone is the rotation of the earth around the sun. This astronomic actually causes the changing of the seasons spring, summer, fall and winter on the earth. This is the second cosmic rhythm of our planet. As the frequency of the day influences the body, the frequency of the year influences the soul.

In India this tone is the keynote of sitar and tambura music and is called «sadja» which also means «Father of the others». Also the sacred syllable «OM» is tuned to this tone like mostly all the religious temple music. Many bells and other instruments are tuned to this tone. Who wonders why Hindus talk so much about the soul and transmigration of the soul when knowing that their music is tuned to the frequency of the soul.

The ancient Indians arrived at this tone through meditation, it was given to them intuitively and contemplatively by «opening up to the cosmos». But we have to calculate it with mathematics and physics. The really exact conformity of many of the examined bells and comparisons with instruments evidently show that divergencies very often appear to be far less than 1 Hz. This proves again that we are a microcosmos in resonance to the macrocosmos. This old statement of the hermetic sciences can now be proven in a very precise scientific way.

The secret of the profound effects of Indian meditation music depends simply on the fact that it is exactly tuned to the course of events, to the «Tao». That's the rotation of the earth around the sun. Not only the instruments but also the musicians and the audience are being attuned during the «alapa» (the

tuning before the concert) to the everlasting tone, the sadjy. All the participants are in harmony with the cosmos which finds its echo in the human beings, who take part in this meditative music. According to Indian tradition, the sadjy, or «sa» for short, is the everlasting, never ceasing tone and as mentioned before is expressed through the syllable «OM». OM corresponds to the «Amen» in Christian churches. Amen means nothing else than «so be it». The «OM» also expresses «so be it», manifested through the everlasting tone. One can check it out for oneself by listening to original Indian meditation music, or even better meditate with this tone, humming or singing and letting yourself be impressed by it and so feel the power that lies within it. If not used to chant, press the oscillating tuning fork with 136.10 Hz (the frequency of the earth year) against the bottom of your breastbone or one fingers width lower. These are the point 17 and 16 of the front psychic meridian, the so called Ren-Mai-meridian. These points are also located at the heart chakra.

If you are not alone and have friend with you, you can have the tuning fork pressed on your back, on the 5th dorsal vertebrae of the spine. This point belongs to the second psychic meridian, the Du-Mai-meridian. The effect is similar to the treatment at the Ren-Mai-meridian. The whole thorax starts vibrating, which really has a wonderful relaxing effect. It is almost like singing the tone oneself. Letting it vibrate and resonate the thorax for awhile, it is easy to start humming the tone quietly. It is easy to find the tone, because humming the tone too high or too low, one feels it with the body and it is really to attune. In that way the tone is to be learned without great effort and by letting the vibrations flow more and more through the body, the whole body slowly becomes the tone. By this we mean not only bringing oneself into harmony with the tone and so with the Tao but also with the praying monks in North India, Tibet and the remaining world, who meditate to the sacred syllable «OM» and all who sing that tone.

Only one who has meditated to this tone may have an idea, how deep the relaxing effect of this vibration is and how it calms the soul when one attunes oneself regularly to it.

In Medicine this tone is mainly used for sedation. For relieving stress and for treating muscle spasm this tone is regarded as desirable. It has also proved effective for habitual headaches. The tonepuncture at about two finger widths to the left or the right of the spine at the height between the first and the second cervical vertebra is particularly pleasant. A meditation music, which is tuned to this tone also has powerful relaxing effect, and is recommended for nervousness and inner restlessness. Afterward one feels relieved, pleasantly and again much more receptive. In the European and North-American society the demand for this vibration is the strongest. Intensive work with this tone can decrease the need for sedatives and narcotics. Great stress is often the cause of pain and therefore many people who meditate to this oscillation or have tonepuncture with it may need far less or even no more medication. The frequency of the year is the best oscillation for everyday stress relief, to regain inner peace, open blocked energy pathway and restore balance.

### ***The Frequency of the Platonic Year***

tone:	172.06 Hz, F
pitch data:	equivalent chromatical $a^1 = 433.6$ Hz difference to 440 Hz = - 25.5 cent
tempo:	80.6 / 161.3 bpm
color:	purple
chakra:	Sahasrar (crown chakra)
effect:	supports cheerfulness and clarity of spirit, support cosmic unity on highest levels (medicinal: anti depressive)

This tone is the 48<sup>th</sup> octave of the precession of the earth's axis, which is a gyroscopic motion. This causes the journeying of the vernal equinox, that indicates the passing of ages. At this time the vernal equinox enters into the sign of Aquarius, that's why it is said the age of Aquarius begins. The tone is F with 172.06 Hz and the corresponding colour is purple with a wavelength of about 400 Nanometer.

F is the tone of the spirit. In ancient China it was the fundamental tone. The way the Chinese emphasized the spirit is certainly directly connected with the choice of F as fundamental tone with which they

attached great importance. In no other country was the meaning of music so important for spiritual life as in ancient China.

The following short passage from Li Gi, the Book of Customs may serve as an illustration: «Thus one must examine the sounds to understand the tones, one must examine the tones to understand the music, one must examine the music to understand the laws. In this way, the path to order is made perfect... He who understands music will thus penetrate the secrets of the customs. He who has experienced both customs and music possesses life. Life is experience.»

The tone F belongs to the crown chakra, the central point at the top of the head. This chakra is the highest point or the upper end of kundalini. According to Hinduistic and Tibetan tradition this is the point of cosmic unity with god, center of divine inspiration and supramental intuition. Holding a tuning fork with 172,06 Hz to this point will activate the crown. This point also belongs to the Du-Mai-meridian.

Meditation music that is attuned to this tone can be very effective for spiritual path and leads away from physical and psychic regions into the spheres of spirit. The corresponding colour, as it said before, is purple. It is characteristic, that this colour is used in many cult ceremonies to advance cheerfulness and clarity of spirit. The colour and the tone complement each other extremely well and are recommended for all rituals whose aim is to open the crown chakra and raise consciousness to the realms of spirit. The frequency of the platonic year is the gate to spiritual heaven and the connecting link to the Tao in its most pure form.

### ***The Frequency of the Synodic Moon***

tone:	210.42 Hz, G#
pitch data:	equivalent chromatical a <sup>1</sup> = 445.9 Hz difference to 440 Hz = + 22.9 cent
tempo:	98.6 bpm
color::	orange
chakra:	Svadhishthan (2nd chakra)
effect:	stimulates sexual energy, supports erotic communication, (medicinal: for woman it is good for the regulation of menstruation, in general disturbances of gland and lymph system)

The word «synod» means coming together. The synodic month is the middle period from one new moon to the next. At new moon the sun is in conjunction with the moon (the same direction in the sky). The calendar month is derived from the synodic month. In the 29<sup>th</sup> octave the moon oscillates with 210.42 Hz, which is a G#. The corresponding colour is an orange with a wavelength of about 650 Nanometer. Women know much better than men, how strong sexual rhythms are related to the moon. Every month there is menstruation. The sexual life of many species on earth and not only human beings is directed by the moon. Moon and sexuality are very closely related.

At full moon, when sun is in opposition to the moon people are more ready to communicate and more vivid than at new moon. For that reason great feasts are in many cultures celebrated at full moon. The Passover of the Jews, the Holy festival or Guru Purnima of India, all those feasts are always celebrated at full moon. Originally Easter was celebrated at full moon by the Christians until the Council of Nicaea decreed in the year 325 that this feast of Resurrection should always be celebrated with the waning moon. Surely you have also celebrated at full moon at one time or another in some capacity.

The tone of the moon is very suitable for meditation music at occasions like full moon rituals. This tone improves general and especially sexual communication. In therapy the tone of the moon is most of all used with disturbances of the gland and lymph system and also disturbances of menstruation. There are lots of points, that can be treated with the tone of the moon, which cannot all be listed here. By all means the 3<sup>rd</sup> coccygeal (point 2 of the Du-Mai-Meridian) is very suitable, because it corresponds to the 2<sup>nd</sup> chakra, which is the Svadhishthan chakra. At this place it is to be pointed out distinctly that tone-

puncture is supporting therapy but can never replace visiting a doctor. All serious complaints should be treated by a doctor and one should not believe that all disturbances can be removed with tuning fork. Tonepuncture often supports medical treatment and helps one to recover quickly as it stimulates the flow of the energies.

### ***The Frequency of the Sun***

tone:	126.22 Hz, B
pitch data:	equivalent chromatical a <sup>1</sup> = 449.9 Hz difference to 440 Hz = + 38.1 cent
tempo:	118.3 bpm
color:	green
chakra:	Manipura, also called Hara (navel and 3rd lumbar vertebrae)
effect:	advances the feeling of centering, of the magic and of the transcendental (medicinal: not yet explored).

The sun is the energetic center of our solar system. It is the center of gravity, the earth and other planets circle around. Therefore the frequency of the sun is associated to the physical center. In ZEN this point is called Hara. It is the center of gravity for the human being as well as the sun is the center of gravity for our solar system. The frequency of the sun is the expression of a limit because it is the only tone, where an astronomical period is not raised to a higher octave. Like the absolute temperature zero point means the limit of expansion and contraction, the limit that is also called gravitational length.

An imaginary planet that would circle around the center of the sun within the distance of the gravitational length and with approximate light speed would do that about 32000 times in a second. The 8th under octave then has a frequency of 126.22 Hz. The corresponding colour is green to yellow -green with a wavelength of 540nm. The frequency of the sun is the tone of the 20<sup>th</sup> century. It does not represent classical physics as all the other introduced tones in this booklet do, but the modern quantum theory and the relativity theory. The tone of the sun is the border between Yin and Yang, between this side and the other side. It rises out of a higher dimension and depriving itself of rational observation it stands for the magical and the transcendental. The sun tone C should be used, after having worked with the other tones and is most of all for advanced parapsychological navigators. The experiences, that are possible with this tone, therefore have a multidimensional character and one is catapulted into absolutely new fields of existence.

«Meditation carried out to this tone will lead to state beyond good and bad, shame and guilt, beyond space and time, knowledge and wisdom, action and rest and being and not-being. It leads to a state where being has no name, to a state where the all-one and the all-encompassing are no longer separate entities but are reunited at their one common origin, the origin that is also you.»

## Mercury

tone:	141.27 Hz, C#
pitch data:	equivalent chromatical $a^1 = 448.5$ Hz difference to 440 Hz = + 33.2 cent
tempo:	118.3 bpm
couleur:	blue-green
chakra:	Vishudda (throat chakra)
effect:	supports the speech center and the communicative-intellectual principle

Mercury is the planet next to the sun, its rotation around the sun lasts about 88 days. Its tone oscillates in the 30<sup>th</sup> octave with 141.27 Hz. This tone is a D. The corresponding colour is a blue with a wavelength of about 480 Nanometers. Of all planets only the two inner planets (between sun and earth) can be associated to a chakra. Mercury, which is, according to astrological and hermetic tradition, the morning star of Gemini and the evening star of Virgo, stand for communication and cleverness. The tones of the planets are heliocentric tones and so they have by far less meaning for the beginning of life on the earth than the oscillation of our own planet and that of the moon.

## Venus

tone:	221.23 Hz, A
pitch data:	equivalent chromatical $a^1 = 442.5$ Hz difference to 440 Hz = + 9.6 cent
tempo:	103.7 bpm
color:	yellow-orange
chakra:	Anja (third eye)
effect:	supports higher love energy and aspiration for harmony

Venus is the second inner planet of our solar system and its rotation around the sun lasts about 225 days. In the 32<sup>nd</sup> octave the Venus tone oscillates with 221.23 Hz, that is an A. The corresponding colour with a wavelength of about 615 nm is a bright yellow-orange. According to tradition, Venus is associated as morning star of Taurus and evening star of Libra. Holding a tuning fork with the tone of the Venus on the third Eye lets in a great flow of love energy and promotes inner harmony.

## Mars

note:	144.72 Hz, D
pitch data:	equivalent chromatical $a^1 = 433.7$ Hz difference to 440 Hz = - 25.1 cent
tempo:	67.8 / 135.7 bpm
color:	blue
effect:	supports strength of will and focused energy.

Mars is the first outer planet and has a rotation time of a little less than 2 years. In the 33<sup>rd</sup> octave it oscillates with 144.72 Hz, which agrees to the tone D. Its heliocentric color is a blue with a wavelength of about 470 nm. According to astrological tradition Mars is associated with Aries. Mars symbolizes the male focused energy, will and ability for achievement. In antiquity Mars was known as the god of war and was also called Ares.

## **Jupiter**

tone:	183.58 Hz, F#
pitch data:	equivalent chromatical a <sup>1</sup> = 436.6 Hz difference to 440 Hz = - 13.3 cent
tempo:	86.0 / 172.1 bpm
color:	red
effect:	supports creative power and continuous construction

Jupiter has a rotation time of a little less than 12 years and oscillates in the 36<sup>th</sup> octave with F# of 183.58 Hz. The corresponding colour is a red with a wavelength of about 740nm. It is the largest of all planets and is situated right in the middle of the presently known planets. Jupiter is traditionally associated with Sagittarius. Generosity, continuity, magnanimity and joviality are characteristic of Jupiter. It stands for philosophical and material creativity.

## **Saturn**

tone:	147.85 Hz, D
pitch data:	equivalent chromatical a <sup>1</sup> = 443.0 Hz difference to 440 Hz = - 11.9 cent
tempo:	69.3 / 138.6 bpm
color:	blue
effect:	enhances concentration and the process of becoming conscious, is considered to be a cosmic controller.

Saturn is the last planet we are to see with our own eyes. Its rotation time lasts about 29 years, which corresponds to the tone D in the 37<sup>th</sup> octave with 147.85 Hz. Its color is blue with a wavelength of about 460 Nanometers. Since ancient times Saturn has been associated with Capricorn. The thinking of usefulness is very closely related to Saturn. Its support the ability for concentration, the general process of gaining consciousness and shows very clearly karmic connections. It brings structure and order.

## **Uranus**

tone:	207.36 Hz, G#
pitch data:	equivalent chromatical a <sup>1</sup> = 439.4 Hz difference to 440 Hz = - 2.5 cent
tempo:	97.2 bpm
color:	orange
effect:	supports the power of surprise and renewal, has primeval and erotic power

Uranus is the first planet that cannot be seen with bare eyes. Its time of rotation lasts about 84 years. It oscillates in the 39<sup>th</sup> octave with 207.36 Hz, which is the tone G#. Its colour is orange with a wavelength of about 560 Nanometers. Uranus is generally associated to Aquarius in the zodiac. It was discovered for the first time in 1781. The planet Uranus is associated with the principle of falling and rising. So it is the planet of surprise and renewal. It is also said to have a strong erotic effect.

## **Neptune**

Note:	211.44 Hz, G#   sol#
pitch data:	equivalent chromatical a <sup>1</sup> = 448.0 Hz difference to 440 Hz = + 31.3 cent
tempo:	99.1 BPM
color:	orange
effect:	supports intuition, the unconsciousness and enhances the dream experience. It is related to the antique God of the Sea.

Neptune's rotation time lasts about 160 years. This about two times the rotation time of Uranus. Looking at harmonically this means that Neptune is only a lower octave of Uranus. Neptune oscillates in the 40<sup>th</sup> octave with 211,44 Hz, the tone is a G#. its tone is almost octave analog equal to that of the (earth) moon. Its color is also orange and has a wavelength of about 645 Nanometers. The trident is the symbol of Neptune and Poseidon, the God of the Sea. Neptune is also associated with Shiva. Neptune was discovered in 1846 and is associated with Pisces.

## **Pluto**

tone:	140.64 Hz, C#
pitch data:	equivalent chromatical a <sup>1</sup> = 446.5 Hz difference to 440 Hz = + 25.4 cent
tempo:	65.9 / 131.8 bpm
color:	blue-green
effect:	support the magic group dynamic principle and is said to be responsible for integration into certain structures of society

Pluto is known as the farthest planet and was discovered in 1930. The time of rotation lasts about 250 years. In the 40<sup>th</sup> octave it oscillates with 140.64 Hz and the tone is a C#. The corresponding colour is blue with a wavelength of about 485 Nanometers. In general Pluto is associated with Scorpio. Pluto is very harmonically tuned to the (earth) moon and Neptune. to both of them it has an exact quint-quant relation. Pluto is about 40 times farther away from the earth as the sun and a little smaller than the (earth) moon. Nevertheless it is attached to great importance in astrology.

## OTHER TONES OF THE EARTH AND OF THE MOON

### *The Sideric Day of the Earth*

Note:	194.71 Hz, G
pitch data:	equivalent chromatical $a^1 = 437.1$ Hz difference to 440 Hz = + 11.4 cent
Tempo:	91.3 bpm
Couleur:	red-orange

Duration of the true revolution of earth around its axis. The sideric day is about 4 minutes shorter than the average calendar day.

### *Moon-culmination*

note:	187.61 Hz, F#
pitch data:	equivalent chromatical $a^1 = 446.2$ Hz difference to 440 Hz = + 24.2 cent
tempo:	87.9 bpm
color:	red

The time span for one passage of the moon from one south to the next one. Every day, the moon rises about 50 minutes later than the preceding day. The delay adds up to one day during a (tropical) month.

### *The Sideric Moon*

note:	227.43 Hz, A#
pitch data:	equivalent chromatical $a^1 = 429.3$ Hz difference to 440 Hz = - 42.5 cent
tempo:	106.6 bpm
color:	yellow

The time span for one revolution of the moon around the earth, as measured against the celestial sphere. The sideric month is about two and a quarter days shorter than a synodic month. This is caused by the apparent course of the sun along the ecliptic. As the sun passes approximately one sign per month, the moon has to pass through 13 signs to «keep up with it».

### *Metonic cycle*

note:	229.22 Hz, A#
pitch data:	equivalent chromatical $a^1 = 432.7$ Hz difference to 440 Hz = - 28.9 cent
tempo:	107.5 BPM
color:	yellow

The time span of about 19 year, after which the sun and the moon have the same aspects on the same day. The metonic cycle is the basis of combined soli-lunar calendars.

### **Cycle de Saros**

note:	241.56 Hz, B
pitch data:	equivalent chromatical $a^1 = 430.4$ Hz difference to 440 Hz = - 38.2 cent
zempo:	113.2 BPM
Couleur:	jaune-vert

The time span of approximately 18 years and 10 days, after which eclipses of the same type repeat themselves.

### **Apsidis rotation**

note:	246.04 Hz, B
pitch data:	equivalent chromatical $a^1 = 438.4$ Hz difference to 440 Hz = - 6.3 cent
tempo:	115.3 bpm
color:	yellow-green

The duration of the movement of one axis of the elliptical orbit of the moon around the ecliptic. The two extreme points of the bigger axis are called perigee (the point where the moon is closest to the earth) and apogee (the point where the moon is most distant from the earth). One such revolution takes about 8,85 years.

### **Moon knot**

note:	234.16 Hz, A#
pitch data:	equivalent chromatical $a^1 = 442.0$ Hz difference to 440 Hz = + 8 cent
tempo:	109.8 bpm
color:	yellow

The duration of the path of the nodes along the ecliptic, about 18,6 years. The nodes are the intersection of the orbit of the moon with the ecliptic. If the moon moves along the ecliptic from South to North, it crosses the North node, which is also called the «head of the dragon». If it moves from North to South, it crosses the South node, which is also called the «tail of the dragon».

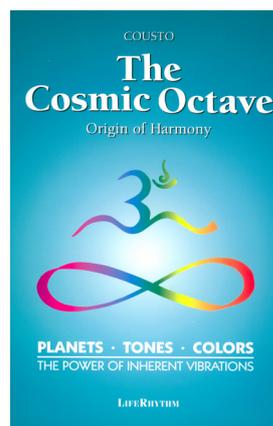
## Literature

**Cousto**

### **THE COSMIC OCTAVE - Origin of Harmony**

This book offers a unique survey of a new scientific view of the world where a direct relationship has been proven to exist between musical tones, colours and the vibrations of the universe.

The author Cousto, a Swiss mathematician and harmonist, has re-discovered the so-called «Third Measure», an ancient, secret key of measure which was the object of research of Louis Charpentier's book «The Secrets of Chartre Cathedral», where he sought after the existence of a relationship between the forces governing spacial proportion and those underlying the division of time, the mysterious unit of measure on which the proportions of the Gizeh pyramid and Salomons Temple were based.



Cousto has discovered this unit of measure in the «Law of the Octave» thus making it possible to openly demonstrate the direct relationship of astronomical data, such as the frequencies of planetary orbits, to architectural works, ancient and modern measuring systems, the human body, music and medicine.

The «Cosmic Octave» is not only a book for astrologers, harmonists, doctors, healers, architects and musicians but is also compelling reading for the kind of person who has always wondered whether a mysterious universal law of harmony does exist behind the apparent chaos of life. Here, in this book, proof of such a law is made available to everyone.

128 pages

45 illustrations

24 pages scientific appendix

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THE COSMIC OCTAVE TUNING FORKS (this booklet)

[www.planetware.de/octave/](http://www.planetware.de/octave/)



## The Planetary Tuning Forks

**The original, from the developer of the Cosmic Octave.  
Tones of the SUN, the MOON, the EARTH and the PLANETS.**

In 1978 Hans Cousto, a Swiss mathematician and musicologist discovered the natural law of the „Cosmic Octave“; this links a variety of natural phenomena which occur periodically, such as of the orbits and rotations of the planets, the weather, colours and musical rhythms and tones.

Using the octave formula  $f \cdot 2^n$  (= frequency doubled n times) he calculated the audio frequencies of the circulations and rotations of the earth, the moon and the planets.

### Tuning Fork Frequencies

#### Sun

126.22 Hz = Sun Tone

#### Earth:

194.18 Hz = Earth's day (syn)

194.71 Hz = Earth's day (sid.)

136.10 Hz = Earth's year

172.06 Hz = Platonic year

#### Moon:

210.42 Hz = Synodic moon

227.43 Hz = Sideric moon

187.61 Hz = Moon culminat.

229.22 Hz = Metonic cycle

241.56 Hz = Saros' period

246.04 Hz = Apsidis' rotation

234.16 Hz = Moon knot

#### Planets

141.27 Hz = Mercury

221.23 Hz = Venus

144.72 Hz = Mars

183.58 Hz = Jupiter

147.85 Hz = Saturn

207.36 Hz = Uranus

211.44 Hz = Neptune

140.25 Hz = Pluto

Since 1978 Fritz Dobretzberger has cooperated with Hans Cousto, producing tuning forks which vibrate at the frequencies calculated, thereby making these audible.

Eleven years later Fritz founded PLANETWARE to provide information about the Cosmic Octave and to ensure that the relevant instruments are available for everyday use.

All Planetware tuning forks are produced using steel of the highest quality in order to create the most uniform vibration behaviour and purest pitch. The following description of our tuning forks allows a comparison to be made with other tuning forks available on the market.

This tuning forks are superb for precise attunement to the naturally occurring frequencies of nature and life; they are used for tuning music instruments as well as in „sonopuncture“, which brings our body and soul into tune with the universe.



### The Planetware tuning forks are available in 4 different types: S, Splus, L and Lplus

#### Tuning Fork S = small

*For occasional usage at home*

Manufactured using highest quality nickel-plated steel with a surface as smooth as glass. The prongs are 4 x 8 mm with smoothly rounded edges joined to a handle with a thicker base. They are heavier than other commercially available 440 Hz tuning forks and therefore resonate longer after being struck. Handcrafted and electronically calibrated at 20°C, the note precision with a tolerance of +/- 0.25 Hz far exceeds the DIN standard requirements. The audio frequency has been stamped onto the base.

#### Tuning Fork Splus = standard plus ergonomic grasp

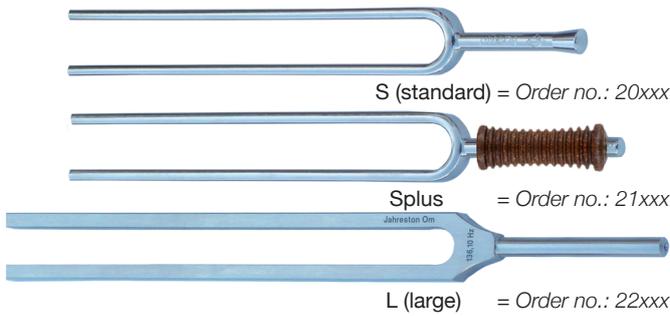
*For a relaxed, ergonomic usage*

An improved "S" tuning fork with the same prongs (and same note precision) but a longer and ergonomically designed soft grip handle making it easier and more comfortable to use during sonopuncture. The soft grip is made of cork with a thermoplastic elastomer (TPE) coating. On the side of one prong there is a high-contrast inscription denoting the fork model and pitch.

#### Tuning Forks L or Lplus = large without or plus ergonomic grasp (like Splus)

*For frequent and professional usage*

Intricately cut from a single piece of stainless steel and nickel-plated (a smooth matt finish). Prongs with chamfered edges all round. 60% heavier than standard tuning forks, they resonate approximately twice as long and therefore do not have to be struck as often during prolonged professional use. Extremely high pitch precision of +/- 0.3% (= 0.3 hundredths of a semitone). High-contrast inscription denoting the frequency and planet.



### Individual Tuning Forks S, Splus, L

For all tones of the earth, the planets, the moon, the sun and various special pitches.

Proportions of tuning forks 136.10 Hz			
	S	Splus	L+ Lplus
Total lengths	190 mm	204 mm	242 mm
Lengths of stem	38 mm	52 mm	55 mm
Prongs:	4 x 8 mm	4 x 8 mm	5 x 8 mm
Weight	78 g 2.75 oz	85 g 3 oz	133 g 4.69 oz

### Chakra Tuning Forks S

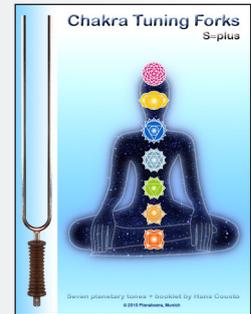
7 tuning forks S and booklet by Cousto



Order no.: 2007

### Chakra Tuning Forks Splus

7 tuning forks Splus and booklet by Cousto



Order no.: 21007

### The tones of the seven chakras:

1. Earth's day (synod.) 194.18 Hz
2. Moon (synodic) 210.42 Hz
3. Sun tone 126.22 Hz
4. Earth's year 136.10 Hz
5. Mercury 141.27 Hz
6. Venus 221.23 Hz
7. Earth, platon year 172.06 Hz

### Chakra Tuning Forks L or Lplus

7 tuning forks in a bag from pleather, plus 1 Top Piece and booklet by Hans Cousto



L without ergonomic grasp = Order no.: 22007  
 Lplus with ergonomic grasp = Order no.: 23007

### Set with 13 Tuning Forks L or Lplus

1 bag from pleather with 1 sun tone, 3 earth tones (day, year, platon. year), 1 moon (synodic), 8 planets plus 1 top piece and booklet by Hans Cousto

L without ergonomic grasp = Order no.: 22013  
 Lplus with ergonomic grasp = Order no.: 23013



### Set with 25 Tuning Forks L or Lplus

2 bags from pleather with 25 large tuning forks (please refer to the order list) plus 1 top piece and booklet by Hans Cousto. Inklusive 1 Tonpunktur-Aufsatz.

L without ergonomic grasp = Order no.: 22025  
 Lplus with ergonomic grasp = Order no.: 23013



## **A WORLD FIRST**

### **The “Splus” tuning fork with its ergonomically designed handle**

After more than 30 years interest in the planetary tuning forks for use in sonopuncture has increased so dramatically that Planetware has been able to develop tuning forks with an ergonomically designed handle. Because the new tuning fork is a further development of the “S” (standard) tuning fork we have decided to call it the “Splus”. The handle is 14 mm longer than that of the “S” model and has an ergonomically designed soft grip made of cork coated with a thermoplastic elastomer (TPE). The shape and material used allow the tuning fork to be held more easily and comfortably than ever before. The easy handling means that your fingers don't tire or cramp as quickly. This innovative ergonomic soft grip is the result of years of research and testing with various materials and shapes. It has been tried and tested by the users themselves.

### **A TUNING FORK SHOULD BE IN TUNE!**

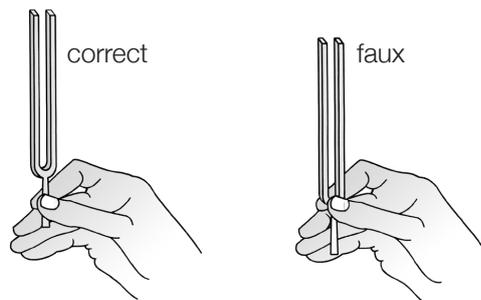
The prongs of the “Splus” tuning fork resemble those of the “S” model; the vibration behaviour is identical as is the note precision. Since the autumn of 1978 when Hans Cousto identified the frequencies of the Earth, moon, planets and sun we have placed great value on the highest quality. A short anecdote from those days serves as proof: The first tuning forks delivered from the factory were only of DIN (German Industry Norm) standard meaning some forks had a deviance of up to 1 Hz from the specified frequency. We returned these tuning forks assuring the manufacturers that a difference of 1 Hz in the octave of the Earth's rotation would make the terrestrial day approx. 7 minutes shorter than it actually is (in fact, in the past 3000 years the length of the Earth day has increased by approx. 0.05 seconds).

In order to achieve this high quality and uniform vibration behaviour all PLANETWARE tuning forks are made from stainless steel of the best quality. Furthermore, each fork is individually hand-filed as often as necessary (either at the ends of the prongs or the inside of the base and at a temperature of 20°C) to achieve the required precision. The better the frequencies harmonize, the better the vibrations are transmitted. Nowadays there are a number of companies on the market offering tuning forks. If you are looking for high quality, check out the accuracy of the frequency.

### **How to hold the tuning forks**

Hold by stem only.

Do not touch vibrating prongs when grasping fork.



#### **Contact:**

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