

MU-MAGARI NO.4 QUAZI-PERIODIC CHIRAL LATTICE

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The quasi-periodic lattice I published in the past were not stable without strings which bind at 12 points at least (Fig.x). They should be broken little by little without the strings. But I discovered a self-standing structure consisted of 6 axis in November 1996. When the arrangement of rods is such as Fig.y, the whole structure becomes self-standing structure. Since there is a little twist, it gets friction. I feel as if it gets independent gravity. Ordinary Arch and Dome are also self-standing structures. But they depend on the gravity of Earth. They need the Earth. However, the MU-MAGARI No. 4 doesn't need anything. It stands just itself even if it is in space. It is a remarkable dynamics.

[Irrational Architecture]

In addition, there is a spherical dome inside MU-MAGARI No.4. I made big one using 5 / 0 bamboo poles and entered the inside in July 1996. Of course it was self-standing in such a large scale. I was surrounded with the quasi-periodic structure. It was a great view (Fig.z). I believed it was a genuine architecture. It was a prototype of coming form of architecture.

[Chiral Lattice]

All structures that I discovered have chirality.

Professor Roger Penrose suggested me to call such structures as "Chiral Lattice". It is a good term. That is to say, the MU-MAGARI is Quasi-Periodic 3D 6axis Chiral Lattice. I discovered also Quasi-Periodic 2D 5axis Chiral Lattice as GO-MAGARI in 1990.

There are many Periodic Chiral and Achiral Lattices which were found by other persons in the past. We can classify all of Crystallographic structures using this term "Chiral/Achiral" e.g. Ordinary basket is Periodic 2D 2axis Chiral lattice. Descartes' coordinates is Periodic 3D 3axis Achiral Lattice. Existing Crystallography used to research only Achiral Lattice. So to speak, Chiral Lattice is quite Counter-Occidental Science. Chirality is normal, but Achirality is abnormal in Nature, I think.

Chiral Lattice is general structure.