

## "3D-SYMMETRISM. SCULPTURES AND 3D-DESIGN OF S.PETUKHOV"

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non-euclidean.

Space demand in the exhibition: 4 square meters  
approximately.

Symmetry elements in works of art can bear a considerable emotional charge.

In author opinion, there is a great potential to bring into use hidden reserves of many kinds of symmetry for emotional power of sculptures and others 3D-compositions. Author long-term investigations of symmetries in biological bodies are a point of departure for this opinion. As we know, a structure of bodies, physiological normal postures, a motor kinematics, sensor systems for many bioorganisms are based on symmetry principles with utilization of many kinds of euclidean and non-euclidean symmetries [1-3].

By means of his sculptures and 3d-desings, the author tries to extract perfect emotional possibilities which are concealed in these wonderful biological principles of symmetry till now and to enlarge an application of these principles for art and reclamation works.

### Literature:

1. Weyl H. [1952], Symmetry, - Princeton, Princeton University Press.
2. Petukhov S.V. [1981], Biomechanics, bionics and symmetry, - Moscow, Nauka. (in Russian).
3. Petukhov S.V. [1989], Highest symmetries and iterative algorithms in self organization of living matter. Cyclomer biology and cyclomer arts. - In: "Symmetry: Culture and Science", (Ed. G.Darvas & D.Nady), v.1, n.3, 1990.