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Rabinovich A. L., Talis A. L. (Petrozavodsk, Institute of Biology, Karelian Research Centre RAS; Moscow, A. N. Nesmeyanov Institute of Organoelement Compounds RAS). **System of channel-like substructures which are mappings from a four-dimensional diamond-like polytope: symmetry.**

Abstract: A group-theoretical description of the system of channel-like structures has been obtained which are constructed on the basis of mappings from the polytope {240} into 3-dimensional Euclidean space using the Hopf fibration. The system of channels was shown to be an “ideal prototype” for real structures.

Keywords: polytope {240}, channel-like structures, non-crystallographic symmetry.

