

(c)

Fig.1 Symmetry planes of selected symmetry groups: a) Tetrahedral T_d b) Octahedral O_h c) Icosahedral I_h

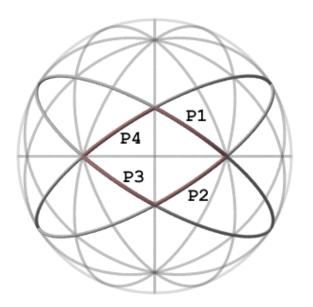


Fig.2 A kaleidoscope is formed by a sequence of symmetry planes.



Fig.4a The face formed by reflections in the symmetry planes P4 and P1.

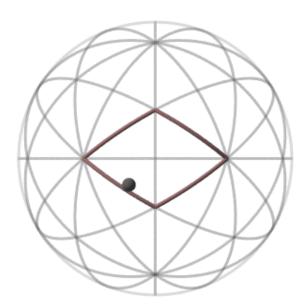


Fig.3 A generator vertex on the sphere.

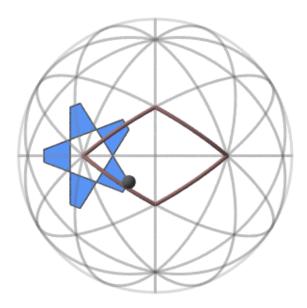


Fig.4b The face formed by reflections in the symmetry planes P3 and P4.



Fig.4c The face formed by reflections in the symmetry planes P2 and P3.

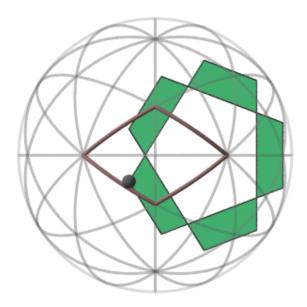


Fig.4d The face formed by reflections in the symmetry planes P1 and P2.

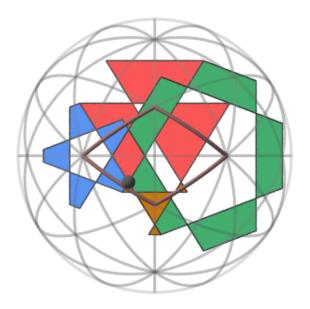


Fig.5 All the faces containing the generator vertex.

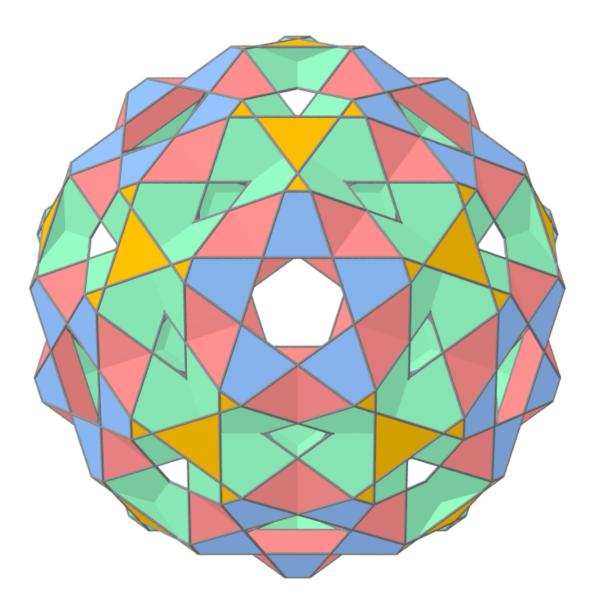


Fig.6 Completed kaleidoscopical polyhedron (Polyhedron's 5-fold axis is turned to the viewer).

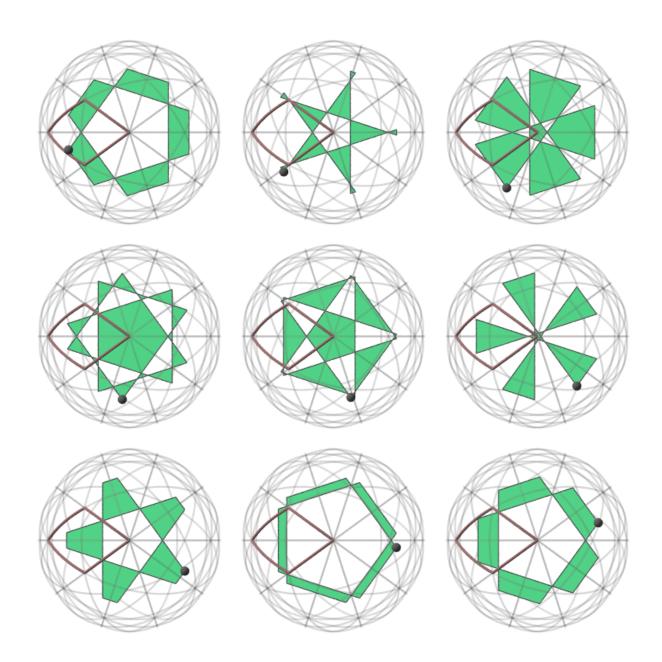


Fig.7a Metamorphosis of a kaleidoscopical decagon formed by reflections in planes P1 and P2.

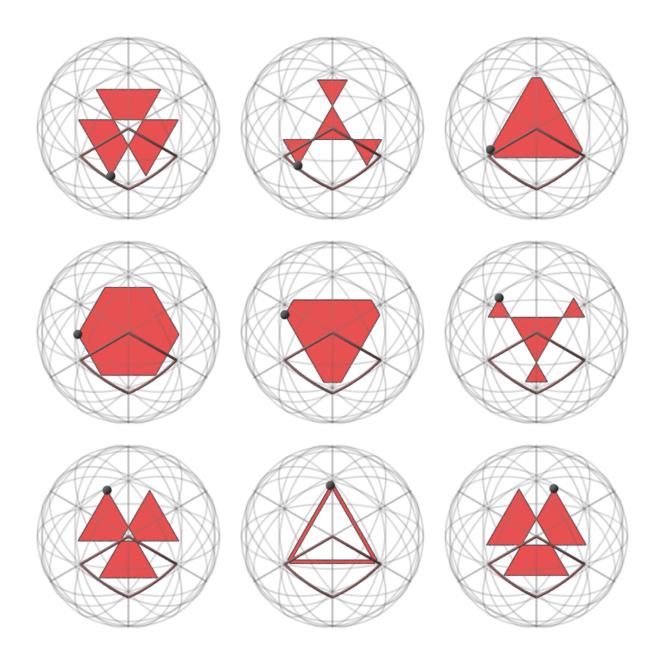
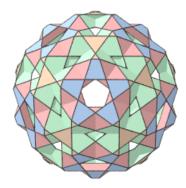
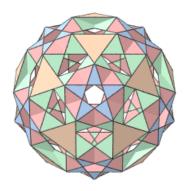
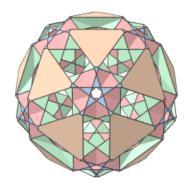
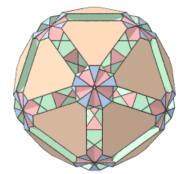


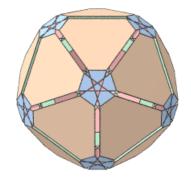
Fig.7b Metamorphosis of a kaleidoscopical hexagon formed by reflections in planes P1 and P4.

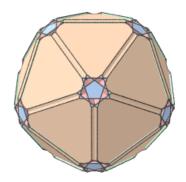


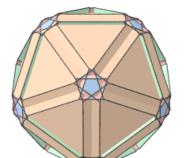


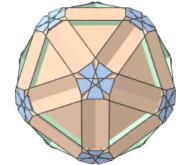


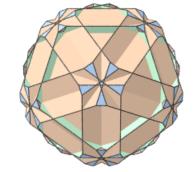












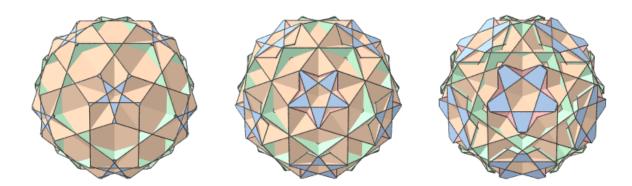


Fig.8 Metamorphosis of a kaleidoscopical polyhedron.

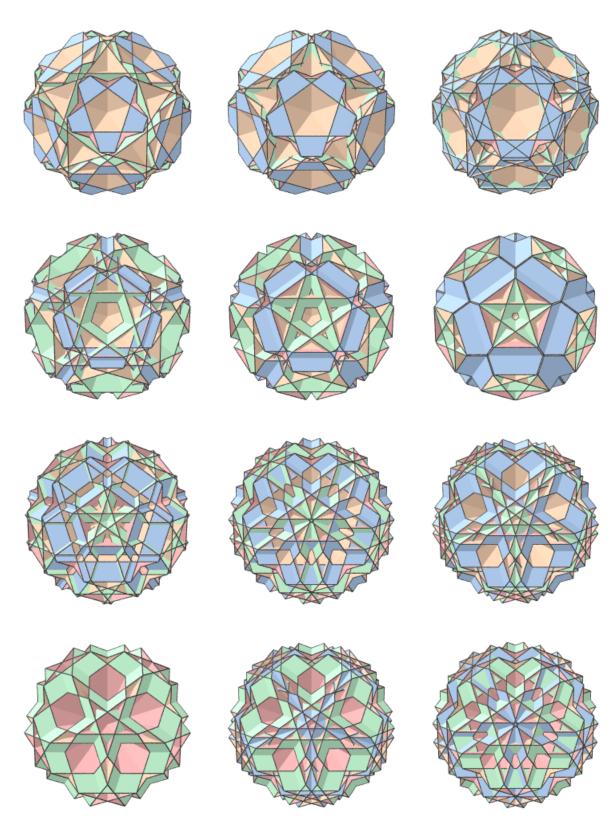


Fig.8 Metamorphosis of kaleidoscopical polyhedron (continued).