

Homochoric	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W
Cubochoric	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W
Stereographic	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W

Solid (S) and wireframe (W) mp4 blue-red anaglyph movies of the Fundamental zones of the 10 rotational point groups in four different orientation representations.

Representation	2	3	4	6	222	32	422	622	23	432
Rodrigues	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W
Homochoric	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W
Cubochoric	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W
Stereographic	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W	S,W

The movies in the tables above all have "empty" fundamental zones. In the next table, we provide a few links to 3D stereographic projections of different sets of rotations around a given axis for both the cubic (octahedral **432**) and hexagonal (dihedral **622**) fundamental zones. Each orientation is represented by a colored sphere; spheres with identical colors are related to each other by the symmetry operations of the rotational point group. Note that the equivalent FZs have also been drawn. Each movie is available in standard and anaglyph versions.

Standard (S) and stereoscopic blue-red anaglyph (A) mp4 movies of equivalent rotations around the [100], [110], [111], and [123] axes for the octahedral and hexagonal symmetry groups (3D stereographic projections).

Fundamental Zone	[100]	[110]	[111]	[123]
Cubic 432	A,S	A,S	A,S	A,S
Hexagonal 622	A,S	A,S	A,S	A,S

As a second illustration, consider all rotations with rotation axes in the x-y plane and a rotation angle of 45°; they are represented by quaternions of the type $[\cos(\pi/8), \sin(\pi/8)\cos(\theta), \sin(\pi/8)\sin(\theta), 0]$, where theta is the angle of the rotation axis with respect to the x-axis. In the stereographic projection, which is an equal-angle projection, those rotations are represented by a circle of 180 spheres (theta is incremented from 0° to 358° in steps of 2°). A stereographic projection of all the orientations that are equivalent to the initial set is available [here](#) in standard rendering, and [here](#) in red-blue anaglyph mode. Superposition of the cubic fundamental zone outlines results in the following [standard](#) and [anaglyph](#) representations.

Finally, we make a connection between the traditional Euler space representation of textures and the 3D visualizations introduced above. The links in the table below connect to movies that show how the Rodrigues fundamental zones are mapped

