Showing combinations of the 3rd $\frac{\pi}{5}$ rotation of the $\mathrm{H} 4 \Phi$ snub 24 -Cell with various Platonic solid related hulls of the H 4 and $\mathrm{H} 4 \Phi 600$-Cells which make up the 240 vertex locations of E8 The one shown below is the smallest of the hulls - the H4 Icosahedron (1a) hull:



The one shown below is the H4 Dodecahedron (2b) hull:



The one shown below is one of four combined H 4 and $\mathrm{H} 4 \Phi$ Icosahedron (3d) hull:



The one shown below is the largest of the H4 hulls - the Icosidodecahedron (4) hull:



The one shown below is the $\mathrm{H} 4 \Phi$ Dodecahedron (5b) hull:



The one shown below is the $\mathrm{H} 4 \Phi$ Icosahedron (6b) hull:



The one shown below is the largest hull - the H4Ф Icosidodecahedron (7) hull:



