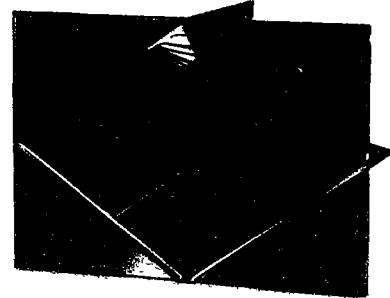


TESSERAKT MIRROR

Caspar Schwabe



Tesserakt *tesseres* four, *aktis* ray.

The Tesserakt Mirror is a polyhedral 12-fold kaleidoscope to illustrate the general appearance of a four-dimensional cube. With this interactive exhibit you can expand a hypercube and watch the interesting phenomenon that the inside grow much faster than its outsides.

This was the 1:5 scale model for the Swiss pavillon in Lissabon Expo 98, where the hypercube is made out of running water.

(Material: Polished steel. Measures: height: 20 cm, length: 30 cm, width: 15 cm)

VARIOSKOP MIRROR

Caspar Schwabe



The four mirrors of this tetrahedral kaleidoscope are hinged together so they can be continuously varied from 0° to 180° . Each position has its own mirror symmetry. At any random angle we see a mirror image with no order and the reflections overlap.

Only if the dihedral angle is set at exactly 120° we can observe a complete symmetrical image with a 3- and 5-fold axis. In this position we have a 30-fold polyhedral kaleidoscope.

The apex of the 4-sided cone can be cut in several ways and the aperture creates many different images, such as the great stellated dodecahedron

(Material: Polished steel. Measure: height: 30 cm, length: 25 cm, width: 20 cm)