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Deformations of Spherical Isometric Foldings

Given two spherical isometric foldings f and g, f is said to be *deformable* in g if and only if there exists a continuous homotopy $H\colon [0,1] \times S^2 \to S^2$, such that for each $t \in [0,1]$, H_t given by $H_t(x) = H(t,x)$ is an isometric folding.

The deformation of special classes of isometric foldings will be considered. It will be shown that, within these classes, any isometric folding is continuously deformable in the *standard spherical folding* $f_\star$ ($f_\star(x,y,z) = (x,y,|z|)$), reinforcing Robertson's conjecture.