

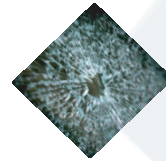
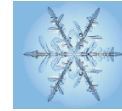


## Aim and vision:

The goal of the Centre for Symmetry and Deformation is to understand the mathematics behind symmetry and deformation. Symmetry is one of the most fundamental notions in nature: In physics it gives rise to conservation laws, in chemistry it determines the structure of molecules, and in evolutionary biology, as well as other aspects of life, it often underlies the notion of “beauty”.

The symmetries of a geometric object are however not stable under deformation:

Whereas a perfectly round sphere has all rotational and reflectional symmetries, deforming the sphere slightly destroys these symmetries. The center aims to reconcile this, combining the mathematical disciplines of group theory, homotopy theory, and non-commutative geometry in a novel way, to study symmetry deformation invariantly.



### Info:

The Centre for Symmetry and Deformation is based at the Department of Mathematical Sciences, University of Copenhagen, and consists of 9 permanent faculty and around 30 postdocs and PhD-students, as well as numerous associated faculty and visitors.

The center was founded Jan 1, 2010, via a grant from the Danish National Research Foundation, and is headed by Prof. Jesper Grodal. For more information visit our website <http://sym.math.ku.dk>