

# ZERNIKE INSTITUTE COLLOQUIUM

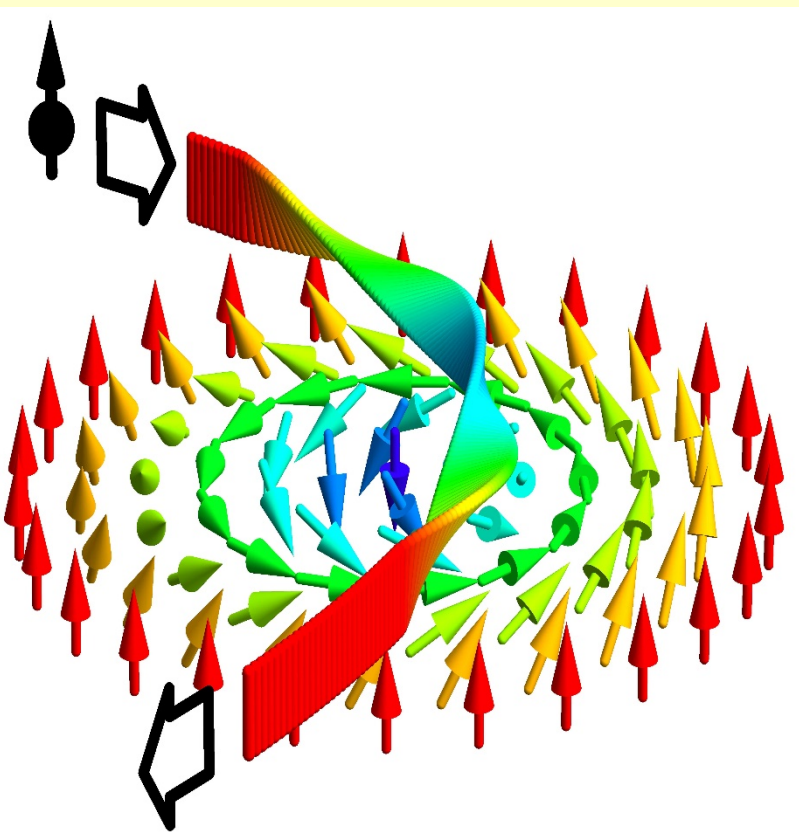
Thursday, June 1<sup>st</sup>, 2017

16:00h, Lecture Hall: 5111.0080

Coffee and cakes from 15:30h

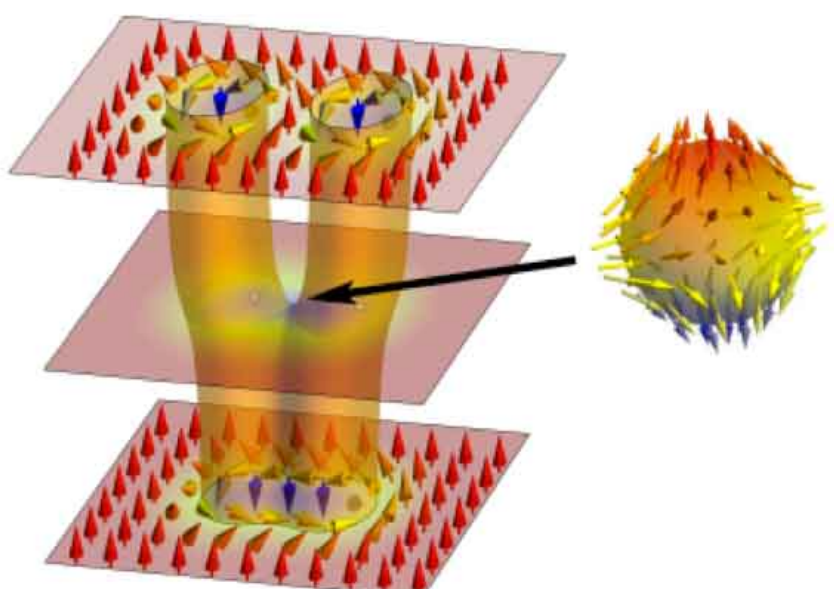
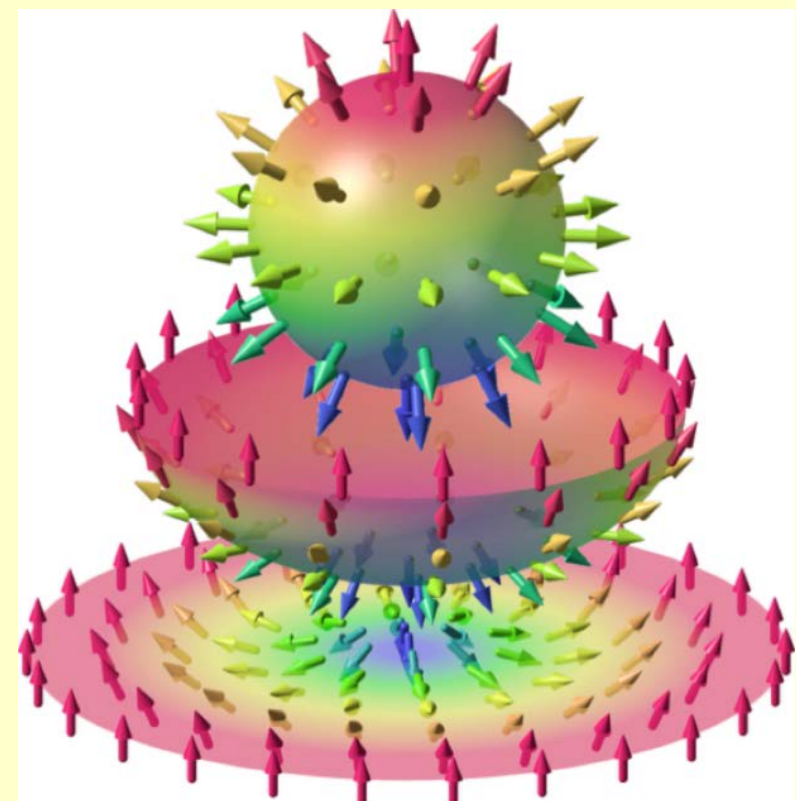
## Topological Spin Textures

**Christian Pfleiderer**  
Physik-Department  
Technische Universität München  
Garching, Germany



Many decades of intense research based on the notions of symmetry breaking and generalized rigidities have resulted in a remarkably comprehensive account of complex forms of magnetic order in condensed matter systems. In recent years a new facet of magnetism research receives increasing attention that concerns the topological character of magnetically ordered systems, notably those properties that remain unchanged under elastic deformations.

Important examples include skyrmions, vortices and monopoles in chiral or frustrated magnets. These topological aspects of magnetic order are not only appealing from an esthetical and conceptual



point of view, but offer strikingly simple explanations for materials

properties that may seem to be surprising and hideously complicated at first sight.



university of  
groningen

zernike institute for  
advanced materials