



Centre for Symmetry and Deformation

Department of Mathematical Sciences, University of Copenhagen



CENTER HIGHLIGHTS 2012



The year 2012 was the center's third year, a year where the results of our labor began to show in some very tangible ways. A high number of papers reporting on research commenced at the center were accepted in top journals. And the PhD students enrolled at the start of center began to graduate, receiving prestigious postdoc positions at places like MIT, EPFL (Lausanne), and Münster.

ACTIVITIES. The center hosted 1 large conference, 4 workshops, and 3 masterclasses in 2012. The Spring visit by **Galatius** culminated in the hugely successful Young Topologists Meeting, which attracted 130 participants, mainly MS and PhD students—we ascribe another rise in PhD and postdoc application numbers in part to this conference. The Fall program was centered around the visit by **Ozawa**, where highlights included a November workshop on sofic groups with the leading experts in the field.



RESEARCH. We had several research breakthroughs in 2012. **Benson–Grodal–Henke** proved that variety isomorphism in group cohomology implies control of fusion; the paper is currently undergoing revisions at *Invent. Math.* We also highlight **Wahl**'s results on the natural operations on the Hochschild complex of algebras of a given type, which has opened up new possibilities that will be pursued in 2013. The visit by **Kirchberg** in 2011 resonated also in 2012, in that **Kirchberg–Rørdam** managed to give conditions describing Jiang–Su algebra stability, fulfilling one of our research goals; the paper has been accepted to *Crelle's Journal für die reine und angewandte Mathematik*. We mention that several of the papers highlighted last year have meanwhile been accepted, with **Oliver**'s paper on the Martino–Priddy conjecture appearing in *Acta Math.* and the **Haagerup–de Laat** paper appearing in *Duke Math J.* Finally, again this year we won a major international prize, with **Haagerup** being awarded the 14th ESF Latsis Prize.

Inventiones mathematicae

DUKE
MATHEMATICAL

Journal für die reine und
angewandte Mathematik

ACTA MATHEMATICA

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EDUCATION AND OUTREACH. We held 13 graduate courses and 3 reading seminars in 2012 continuing our strong commitment to building up the MS program, both within the center's core area, but also extending to neighboring fields. In terms of outreach, during the Summer we hosted both a MathCamp for high school students, and a large Math en Jeans conference, with over 300 francophone schoolchildren. Finally we mention our collaboration with a local artist Bugge on explaining symmetry and deformation to a broader audience, which has now resulted in both videos and pictures, soon available on our website.



Picture: Ingrid Bugge

Please visit sym.math.ku.dk for more information.



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