



Centre for Symmetry and Deformation

Department of Mathematical Sciences, University of Copenhagen



CENTER HIGHLIGHTS 2018

This penultimate year in the center's lifespan was marked by new research breakthroughs and papers making it into top journals. Postdocs secured permanent jobs elsewhere in the world, with **Haugseug** getting a lectureship at NTNU Trondheim, along with the Viggo Brun Prize, and **Szabó** securing a tenure track position at KU Leuven.



ACTIVITIES. Being an even year, we hosted the Young Topologist Meeting, which had a record setting 196 registered participants and featured inspiring keynote talks by Professors Hill and Mann, along a display of young talent in the contributed talks. Three masterclasses, which included lecture series by professors Greenlees, Balmer, Noel, and Schwede were also highlights. With 106 invited talks at 96 events around the world we certainly got our share of international exposure. A large emphasis semester at the Isaac Newton Institute in Cambridge in the fall, also made for fruitful interaction, with a busy back-and-forth.



RESEARCH. One definite highlight of the year was the development by **Galatius**, together with former center postdocs Kupers and Randal-Williams, of a whole new approach to homological stability, devising a way to study secondary, and more general higher order, homological stability—they started carrying out this program e.g., for the mapping class group, already getting a wealth of new information. The paper by **Barthel**, **Hausmann** and collaborators, mentioned last year, extending results of Balmer–**Sanders** on the spectrum of the equivariant stable homotopy category, got accepted at *Inventiones*, along with the paper by **Szymik–Wahl** on the homology of the Higman–Thompson groups, also mentioned earlier. Overall we had 34 published papers, and 34 additions to our preprint series, with 15 postdocs and 12 PhD students at the center at the end of the year.



EDUCATION AND OUTREACH. We supervised 4 PhD theses, 7 MS thesis, and 11 BS theses, and taught 13 courses directly related to the center's research. In addition to our regular outreach events, such as stands at the culture night, and evening talks aimed at high school students, we also e.g., took part in a video production, explaining to a younger audience what a professional mathematician does.

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

Funded by

