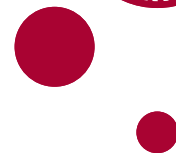
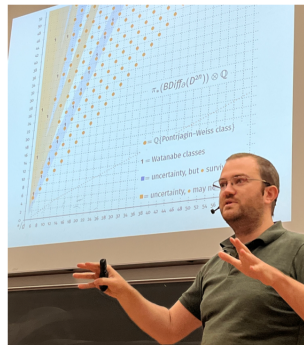


GEOTOP: CENTRE HIGHLIGHTS 2022



The year 2022 put the *Copenhagen Centre for Geometry and Topology* in the spotlight on the international scene. The centre hosted its Gordon conference in July, as a hybrid event, as part of an international effort to save the International Congress of Mathematicians (ICM) 2022, originally planned to be held in Saint Petersburg that summer. GeoTop was well-represented in this quadrennial's most prestigious mathematics conference worldwide, with 1 plenary speaker and 2 invited sectional speakers among its PIs (pictured above)!

By the end of the year, the centre counted 11 permanent members, 2 senior visiting members, 4 associated members, 11 postdocs, and 15 PhD students.

RESEARCH & ACTIVITIES

Highlights in the research progress include a proof of a conjecture about stable cohomology of congruence subgroups by **Randal-Williams**, a classification of modular functors by **Woike** and coauthor, and new classification results for collapsed translating singularities of low entropy by **NM Møller** and coauthors. **Grodal's** article *Endotrivial modules for finite groups via homotopy theory* was accepted for publication (to appear in 2023) in the prestigious Journal of the American Mathematical Society.

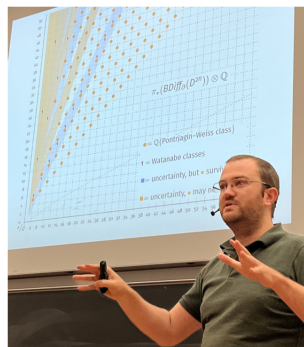
The centre hosted 2 masterclasses and 4 conferences. In addition to our Gordon conference, this included the Young Topologists Meeting (picture below), which attracted more than 150 master's and PhD students and junior postdocs from around the world for an intense week covering a wide range of aspects of the subject.



RECOGNITION

In addition to the three ICM talks by **Colding**, **Randal-Williams** and **Wahl**, centre PIs **Galatius** and **Randal-Williams** jointly received the Clay Research Award for their profound contributions to the understanding of high-dimensional manifolds and their diffeomorphism groups. Also, **Clausen** received the Hartmann Foundation's Diploma Prize for his work on developing and understanding the deep connection between geometry and number theory.

GEOTOP: CENTERHØJDEPUNKTER 2022



Året 2022 bragte *Copenhagen Centre for Geometry and Topology* helt ind i rampelyset på den internationale scene. Centret var vært for sin Gordon-konference i juli, som hybrid-event, som del af en international indsats for at redde Den Internationale Matematikerkongres (ICM) 2022, som efter den oprindelige plan skulle have været afholdt den sommer i Sankt Petersburg. GeoTop var velrepræsenteret ved denne mest prestigøse matematikkonference i verden afholdt hvert fjerde år, med 1 plenartaler og 2 inviterede sektionstalere blandt centrets PIs (fotografier ovenfor).

Ved årets afslutning talte centret 11 permanente medlemmer, 2 senior-gæstemedlemmer, 4 associerede medlemmer, 11 postdocs og 15 ph.d.-studerende.

FORSKNING & AKTIVITETER

Blandt årets højdepunkter i forskningen kan nævnes **Randal-Williams'** bevis for en formodning om stabil kohomologi af kongruensundergrupper, **Woike** og medforfatters klassifikation af modulære funktorer samt **NM Møller** og medforfatters klassifikationsresultater for kollapsede translaterende singulariteter med lav entropi. **Grodals** artikel *Endotrivial modules for finite groups via homotopy theory* blev accepteret i *Journal of the American Mathematical Society*.

Centret arrangerede 2 masterklasser og 4 konferencer. Foruden Gordon-konferencen afholdtes Young Topologists Meeting hvor mere end 150 kandidat- og ph.d.-studerende samt yngre postdocs fra hele verden i løbet af en uge præsenterede deres forskning i mange aspekter af topologi for hinanden.



PRISER OG ANERKENDELSER

Ud over de tre ICM-foredrag af **Colding**, **Randal-Williams** og **Wahl**, modtog to af centrets PIs **Galatius** og **Randal-Williams** sammen Clay Research Award for deres dybe bidrag til forståelsen af højdimensionale mangfoldigheder og deres diffeomorfigrupper, mens **Clausen** modtog Hartmann Fondens diplompris for sit arbejde med at udvikle og forstå den dybe forbindelse mellem geometri og talteori.