CENTRE FOR QUANTUM GEOMTRY OF MODULI SPACES
SCIENCE & TECHNOLOGY
AARHUS UNIVERSITY

Conference program
Topological recursion and quantum algebraic geometry

Monday 28 January

Location: Natural History Museum, Wilhelm Meyers Allé 210, Building 1211 (see map)

08.30-09.00: Coffee/tea

09.00-10.00: The use of topological recursion in mathematical physics (Bertrand Eynard)

10.00-10.30: Coffee break

10.30-11.30: The quantum content of the gluing equations (Stavros Garoufalidis)

11.30-13.30: Lunch break

13.30-14.30: Topological recursion and Givental group action (Nicolas Orantin)

14.30-15.00: Coffee break

15.00-16.00: Topological recursion and knot invariants: two early steps (Gaëtan Borot)

18.00: **Social networking dinner in "MatLab"** (Bldg.1536, 1st floor – See map)

Tuesday 29 January

Location: Natural History Museum, Wilhelm Meyers Allé 210, Building 1211 (see map)

08.30-09.00: Coffee/tea

09.00-10.00: Eynard-Orantin recursions and quantum algebraic curves (Jian Zhou)

10.00-10.30: Coffee break

10.30-11.30: Quantization and super-A-polynomials (Piotr Sułkowski)

11.30-13.30: Lunch break

Time for discussion and tourism

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Wednesday 30 January

Location: Natural History Museum, Wilhelm Meyers Allé 210, Building 1211 (see map)

08.30-09.00: Coffee/tea

09.00-10.00: Orbifold Hurwitz numbers and Eynard-Orantin invariants (Paul Norbury)

10.00-10.30: Coffee break

10.30-11.30: On RNA-shapes over one and two backbones (Christian Reidys)

11.30-13.30: Lunch break

13.30-14.30: The colored HOMFLY polynomial is q-holonomic (Stavros Garoufalidis)

14.30-15.30: Coffee break

16.00-17.00: **Nielsen lecture:** Partitions, coverings, and modular forms (Don Zagier), **in Aud. D1 (bldg. 1531, 1st. floor)**

Thursday 31 January – Aud. D1 & D2

08.30-09.00: Coffee/tea

09.00-10.00: Partitions, Siegel-Veech constants, and quasimodular forms (Don Zagier) – Aud. D1

10.00-10.30: Coffee break

10.30-11.30: Top. Rec. for Gromov-Witten invariants, proof of the BKMP conjecture (Bertrand Eynard) – Aud. D1

11.30-14.00: Lunch break

14.00-15.00: Open-closed Gromov-Witten invariants of toric Calabi-Yau 3-orbifolds (Melisssa Liu) - Aud. D2

15.00-15.30: Coffee break

15.30-16.30: Ghosts on moduli of level curves (Alessandro Chiodo)

17.30: **Walk from QGM**

18.00: **Dinner at "Aarhus Folkekøkken", Skovgaardsgade 3-5, 8000 Aarhus C (See the Social Map)**

Friday 1 February – Aud. G2

08.30-09.00: Coffee/tea

09.00-10.00: Periods and prepotential for (super) A-polynomial curves (Sergei Gukov)

10.00-10.30: Coffee break

10.30-11.30: Topological recursion for quantum Liouville theory (Leonid Chekhov)

11.30-13.30: Lunch break

13.30-14.30: Operadic structures in topological recursion (Brad Safnuk)

14.30-15.00: Coffee break

15.00-16.00: Quantum curves for geometric enumeration problems (Motohico Mulase)