ALGEBRAIC CURVES, THEIR MODULI, AND TROPICAL GEOMETRY

TATIHOU ISLAND, 30 AUGUST-3 SEPTEMBER 2021

Monday.

9:15 *Stable reduction of curves.*
Olivier de Gaay Fortman

10:15 Coffee break

11:00 *Deformation theory of nodal curves.*
Thomas Blomme

12:00 Lunch break

14:30 *Moduli space of stable curves.*
Eloise Hamilton

15:30 Coffee break

16:15 *Mixed Hodge theory for smooth varieties.*
Mohammed Moakher

17:30 *Dual complexes of normal crossings divisors.*
Mattia Cavicchi

Tuesday.

9:15 *Boundary complex of M_g and its cellular homology.*
Emiliano Ambrosi

10:15 Coffee break

11:00 *Virtual cohomological dimension of M_g.*
Olivier Benoist

12:00 Lunch break

14:30 *The Euler characteristic of M_g.*
Thomas Krämer

15:30 Coffee break

16:15 *Stable cohomology and the tautological ring.*
Salvatore Floccari

Wednesday.

9:15 *Graph complexes.*
Matilde Manzaroli

10:15 Coffee break

11:00 *Feynman amplitudes and wheel classes.*
Clément Dupont
Free afternoon (coffee free)

Thursday.

9:15 *The Grothendieck-Teichmüller Lie algebra.*
Vincent Bouis

10:15 Coffee break

11:00 *Willwacher's theorem.*
Javier Fresán

12:00 Lunch break

14:30 *Mixed Tate motives and Brown's Theorem.*
Alex Torzewski

15:30 Coffee break

16:15 *Exponential growth of* $\mathrm{H}^{4g-6}(M_g; \mathbb{Q})$.
Peter Jossen

Friday.

9:15 *Zagier's formula for the top weight Euler characteristic of* $M_{g,n}$.
Giuseppe Ancona

10:15 Coffee break

10:30 Additional Talk
Generalised Kontsevich graphs, r-spin intersection numbers and topological recursion.
Elba Garcia-Failde