The P=W Conjecture in Non Abelian Hodge Theory 30 September-4 October 2024 L3

Schedule

Monday 30 September

9:30-10:30	Anton Mellit, Cohomology rings of character varieties
10:30-11:00	Coffee
11:00-12:00	Siqing Zhang, What happens in positive characteristic?
12:00-14:00	Lunch
14:00-15:00	Junliang Shen, Tautological classes, perverse filtration, and Fourier transform
15:00-15:30	Coffee
15:30-16:30	Olga Trapeznikova, <i>Decomposition of the parabolic map to the moduli of semistable</i>
	bundles: the topology of the fibers and the intersection forms

Tuesday 1 October

9:30-10:30	Olivier Schiffmann, Cohomological Hall algebras of Higgs bundles on curves, BPS
	algebras and cuspidal functions
10:30-11:00	Coffee
11:00-12:00	Victoria Hoskins, Higgs moduli spaces with abelian motives and applications
12:00-14:00	Lunch
14:00-15:00	Emmanuel Letellier, <i>PGL_n-character</i> varieties and Langlands duality over finite fields
15:00-15:30	Coffee
15:30-16:30	Andrew Harder, Perversity, weight, and mirror symmetry

Wednesday, 2 October – Clay Research Conference, L1

10:00-11:00	Ana Caraiani, The cohomology of Shimura varieties - a survey of recent
	developments
11:00-11:30	Coffee
11:30-12:30	Mark Andrea De Cataldo, <i>The P=W Conjecture in Non Abelian Hodge Theory</i>
12:30-14:00	Lunch
14:00-15:00	Timothy Gowers, Some recent developments in combinatorics
15:00-15:30	Coffee
15:30-16:30	Rahul Pandharipande, Cycles on the moduli space of abelian varieties
16:30-17:30	Chandrashekhar Khare, The work of James Newton and Jack Thorne
	Philippe Michel, <i>The work of Paul Nelson</i>
	Presentation of the 2024 Clay Research Awards
17:30-19:00	Reception in the Mathematical Institute
19:00	Dinner for invited guests, Exeter College

Thursday 3 October

9:30-10:30	Fernando Rodriguez Villegas, <i>Tensor product multiplicities for GL_n and U_n over finite fields</i>
10:30-11:00	Coffee
11:00-12:00	Camilla Felisetti, Intersection cohomology of moduli of rank 2 vector bundles
12:00-14:00	Lunch
14:00-15:00	Ben Davison, The stacky nonabelian Hodge correspondence
15:00-15:30	Coffee
15:30-16:30	Andres Fernandez Herrero, Decomposition theorem for the logarithmic Hitchin
	fibration

Friday 4 October

9:30-10:30	Tony Pantev, Classifying abstract Higgs bundles
10:30-11:00	Coffee
11:00-12:00	Tasuki Kinjo, Cohomological Hall induction for (-1)-shifted symplectic stacks
12:00-14:00	Lunch
14:00-15:00	Zili Zhang, The P=W phenomenon for cluster varieties
15:00-15:30	Coffee
15:30-16:30	Qizheng Yin, A Beauville decomposition for the Hitchin system