

String Math 2021

IMPA, Rio de Janeiro, June 14 – 18

Program

*UTC Time	*BRT Time	Monday, 14	Tuesday, 15	Wednesday, 16	Thursday, 17	Friday, 18
12:00 - 12:30	09:00 - 09:30	Opening				
12:30 - 13:20	09:30 - 10:20	Simon Donaldson (Imperial College) <i>Calibrated geometry and gauge theory for manifolds of exceptional holonomy</i>	Si Li (Tsinghua University) <i>Elliptic chiral homology and quantum master equation</i>	Charlotte Kristjansen (University of Copenhagen) <i>Integrable Boundary States in N=4 SYM and Duality Relations for Overlaps</i>	Lotte Hollands (Heriot-Watt University) <i>Exact WKB and abelianization for the T3 equation</i>	Pavel Safronov (University of Edinburgh) <i>Geometric Langlands program for 3-manifolds</i>
13:30 - 14:20	10:30 - 11:20	Denis Auroux (Harvard University) <i>Fukaya categories of Landau-Ginzburg models and homological mirror symmetry</i>	Anne Moreau (Université Paris-Saclay) <i>Nilpotent Slodowy slices and W-algebras</i>	Alba Grassi (CERN) <i>Painlevé equations, quantum operators and gauge theory</i>	Giovanni Felder (ETH Zürich) <i>Superstring measure and the superperiod map</i>	Claudia Scheimbauer (TU München) <i>Extending topological field theories</i>
14:20 - 16:00	11:20 - 13:00	Break				
16:00 - 16:50	13:00 - 13:50	Tom Bridgeland (University of Sheffield) <i>Geometry from Donaldson-Thomas invariants</i>	Eric Panzer (University of Oxford) <i>Single-valued iterated integrals in physics</i>	Nathan Berkovits (ICTP-SAIFR) <i>Manifest Spacetime Supersymmetry and the Superstring</i>	Nathan Seiberg (IAS) <i>QFT and beyond</i>	Announcement String Math 2022 Lorenz Eberhard (IAS) <i>String correlators on AdS3</i>
17:00 - 17:50	14:00 - 14:50	Melissa Liu (Columbia University) <i>Wall-Crossing for the Mirror Quintic</i>	Pedro Vieira (Perimeter/ICTP-SAIFR) <i>Where is String Theory?</i>		Emily Cliff (University of Sidney & UIUC) <i>Moduli spaces of principal 2-group bundles</i>	Thomas Walpuski (Humboldt-Universität zu Berlin) <i>The Gopakumar–Vafa finiteness conjecture</i>
18:00 - 18:50	15:00 - 15:50	Lara Anderson (Virginia Tech) <i>Twisted Dimensional Reductions in F-theory</i>	Mina Aganagic (UC Berkeley) <i>Knot homologies from mirror symmetry</i>		Georg Oberdieck (Universität Bonn) <i>Donaldson-Thomas theory of K3xE in higher divisibility</i>	Alexander Braverman (University of Toronto) <i>Geometric Langlands and quantum super-groups</i>