

String and M-Theory: The New Geometry of the 21st Century – II

(22 Nov 2021–03 Dec 2021)

Name and Affiliation	Talk Title
Meer Ashwinkumar Kavli Institute for the Physics and Mathematics of the Universe, Japan	Matrix regularization of classical Nambu brackets and super p-Branes (Video)
David Berman Queen Mary University of London, UK	The double copy of M-theory (Slides) (Video)
Sergei Gukov California Institute of Technology, USA	Higher-form symmetries in TQFTs and Coulomb branches (Slides) (Video)
Fei Han National University of Singapore , Singapore	Characteristic numbers and index theoretic invariants for 24 dimensional string manifolds (Video)
Yang-Hui He City, University of London, UK	Universes as big data: from geometry, to physics, to machine-learning (Video)
Chris Hull Imperial College London, UK	The (4,0) theory in 6 dimensions: An exotic conformal theory of gravity? (Video)
Hyungrok Kim The Maxwell Institute for Mathematical Sciences, UK	Geometric and non-geometric T-duality using higher gauge symmetries (Slides) (Video)
Georgios Korpas Czech Technical University in Prague, Prague	Using the u-plane integral to probe the A-model (Video)
Neil Lambert King's College London, UK	Lecture: Update on actions and path integrals for the (2,0) theory (Video) Conference: Path-integral formulation of Chiral partition functions (Slides) (Video)
Si Li Tsinghua University, China	Elliptic chiral homology and quantum master equation (Video)

Name and Affiliation	Talk Title
Ioana Coman Lohi University of Amsterdam, Netherlands	Quantum modularity of higher rank homological blocks (Video)
Marcos Marino University of Geneva, Switzerland	Resurgence, quantum topology and strings (Video)
Christian Saemann Heriot-Watt University, UK	Adjusted higher gauge theory and applications in physics (Video)
Hisham Sati New York University Abu Dhabi, UAE	Lecture: Hypothesis H and the (Co)homotopy approach to M-theory and string theory (Video) Conference: Mysterious triality in M-theory (Video)
Sakura Schafer-Nameki University of Oxford, UK	Generalized symmetries in QFT and String Theory (Slides) (Video)
Urs Schreiber New York University Abu Dhabi, UAE Czech Academy of Sciences, Prague, Czechia	Proper Orbifold Cohomotopy for M-Theory (Slides) (Video)
Ashoke Sen Harish-Chandra Research Institute, Prayagraj, India	D-instanton amplitudes in string theory (Video)
Eric Sharpe Virginia Tech, USA	Lecture: An introduction to decomposition (Slides) (Video) Conference: Application of decomposition to anomaly resolution (Slides) (Video)
Meng-Chwan Tan National University of Singapore, Singapore	Unifying lattice models, links and quantum geometric Langlands via Branes in string theory (Slides) (Video)
Alessandro Tanzini Scuola Internazionale Superiore di Studi Avanzati, Italy	Surface operators and simple instanton counting (Video)

Name and Affiliation	Talk Title
Richard Thomas Imperial College London, UK	Nonabelian DT theory from abelian (Slides) (Video)
Mathai Varghese The University of Adelaide, Australia	T-Duality, Jacobi forms and Witten Gerbe modules (Video)
Junya Yagi Tsinghua University, China	Superspin chains from superstring theory (Slides) (Video)
Max Zimet Harvard University, USA	K3 metrics (Slides) (Video)