

TMT Programme SATURDAY 11th March 2023

Time	Duration	Activity	
01:00	15 minutes	Introduction and Housekeeping Plenary (Prize shortlist)	
		Presentations	
01:15	20 minutes	Joseph Duthie, Durham University, The watchman's walk on dynamic graphs	
01:35	20 minutes	Fred Tyrrell, University of Oxford, New Lower Bounds for Cap Sets	
01:55	25 minutes	Paartha Soni, London School of Economics, Cards and Combinatorics	
		Breakout Rooms Stream 1	Stream 2
02:20	20 minutes	Veronica Bitonti, University College London, Intellectual Challenges: Algorithms and Undecidable Problems in Group Theory	Ali Aziz, University of Southampton, A Walk Through the Metric Dimension and Edge Metric Dimension of Graphs
02:40	20 minutes	Marina Anagnostopoulou-Merkouri, University of St Andrews, Pre-Primitive Permutation Groups	Botond Major, University College London, Integration on fractals: Using self-similarity to evaluate singular integrals
3:00-3:30	30 minutes	Networking time	
		Presentations	
03:30	20 minutes	Plenary (Prize shortlist)	
03:50	20 minutes	Eleanor Kneip, Imperial College London, The Duality Problem	
04:10	25 minutes	Oscar Lewis, Durham University, Toric surfaces in F-theory	
		Breakout Rooms Stream 1	stream 2
04:35	20 minutes	Sidharth Hariharan, Imperial College London, Proving and Formalising the Existence of a Partial Fraction Decomposition for Certain Fractions of Polynomials	Katherine Hamilton, University of Nottingham, The Mathematics of Music
04:55	20 minutes	Anda-Raluca Epure, University College London, The complex plane and beyond - Elliptic and Theta functions	Alastair Fan, University of Greenwich, Definitions Of Tangent Space To Manifold
5:15-5:30	15 minutes	Short break	
5:30-6:30	1 hour	Keynote (Edward Frenkel)	
6:30-7:00	30 minutes	Networking	

TMT Programme SUNDAY 12th March 2023

Time	Duration	Activity	
1:00-1:30	30 minutes	Networking	
		Breakout Rooms Stream 1	Stream 2
01:30	20 minutes	James Hanson, Durham University, Fermion - Qubit mapping: making Quantum Chemistry accessible to	01:30 James Thorn, University of Southampton, The group of rational points on the unit circle
01:50	20 minutes	Oleksii Babaskin and Varad Kulkarni, University of Glasgow, The Wave Function Collapse Algorithm	01:50 Stan Harrison, Durham University, Diverse Varieties of Techniques in Additive Combinatorics
02:10	20 minutes	Ben Snodgrass, Durham University, How to 'land' a warp drive	02:10 William Stephenson, University of Leeds, Group Actions on Binary Quartic Forms: How to bound the rank of an Elliptic Curve?
02:30	10 minutes	Short Break	
		Breakout room Stream 1	Stream 2
02:40	20 minutes	Bingheng Yang, University College London, The Dirichlet problem and Perron's solution	Toby Lam, University of Oxford, Showing preservation of properties under multiplication via difference of squares
03:00	20 minutes	Maya Al Saadi, University of Greenwich, From East to West	Yujing Xing, University College London, The Google PageRank Algorithm
03:20	20 minutes	Eilis Meldrum-Dolan, University of Greenwich, Incorrect Pattern recognition and mathematics education	Jiguang Yu, University College London, The relationship between probability and integrals with "sinc" function
3:40-4:00	20 minutes	Networking	
		Breakout rooms Stream 1	Stream 2
04:00	20 minutes	Jiale Miao, Imperial College London, Formalizing Ostrowski's theorem in Lean	Alice Kukuruzovic, University of Huddersfield, Mathematical Modelling of Coffee Brewing
04:20	20 minutes	Adil Raza, University of Kent, Mordell's Equations, Formalised	Abbie Marsh, University of Bath, Theatrical Mathematics: Mathematical modelling of the effects of Covid and theatres
04:40	20 minutes	Yaël Dillies, University of Cambridge, The EGZ theorem: A mathematical library tale	Katerina Michenina, London School of Economics, Stochastic modelling of climate change: From Hasselmann to contemporary research
05:00	15 minutes	Short break	
05:15	15 minutes	Award of prize	
05:30	1 hour	Presenation Keynote (Sarah Hart)	
06:30	30 minutes	Networking	