

Time	Monday 20 May	Tuesday 21 May	Wednesday 22 May	Time
8:00		Breakfast	Breakfast	8:00
8:10				8:10
8:20				8:20
8:30				8:30
8:40				8:40
8:50				8:50
9:00		Kevin Buzzard (Imperial) Mathematics and the Computer	Julia Gog (Cambridge) Some Topics in Infectious Disease Modelling	9:00
9:10				9:10
9:20				9:20
9:30				9:30
9:40				9:40
9:50				9:50
10:00		Andrei Gagarin (Cardiff) Greedy and Randomized Heuristics for Optimization of k-Domination Models in Digraphs and Road Networks	Parallel Session 2 (2 x 3 Student Talks)	10:00
10:10				10:10
10:20		Karl Michael Schmidt (Cardiff) On The Continuum Limit of Discrete Dirac Operators on 2D Square Lattices		10:20
10:30				10:30
10:40				10:40
10:50				10:50
11:00		Tea/Coffee	Tea/Coffee	11:00
11:10				11:10
11:20				11:20
11:30		Geoffrey Grimmett (Cambridge) Counting Self-Avoiding Walks	Nneka Umeorah (Cardiff) Neural Pricing Strategies for Exotic Barrier Options	11:30
11:40				11:40
11:50			Kevin Buzzard (Imperial) Formalising Femat	11:50
12:00				12:00
12:10				12:10
12:20				12:20
12:30		Ka Man (Ambrose) Yim (Cardiff) Distinguishing Local and Global Cycles in Point Samples via Universal Covering	12:30	
12:40			12:40	
12:50			12:50	
13:00		Lunch	Concluding Remarks & Lunch	13:00
13:10				13:10
13:20				13:20
13:30				13:30
13:40				13:40
13:50				13:50
14:00		Post-Lunch Free Time		14:00
14:10				14:10
14:20				14:20
14:30		Ian Lorne Charlesworth (Cardiff) Non-Commutative Information Theory: An Overview		14:30
14:40				14:40
14:50				14:50
15:00		Patrick Osatohanmwen (Bozen-Bolzano) A Flexible Model for Asymptotic Extremal Dependence Modeling		15:00
15:10				15:10
15:20				15:20
15:30		Shauna Ford (Cardiff) Virtual Temperley- Lieb Category		15:30
15:40				15:40

15:50				15:50
16:00	Tea/Coffee	Tea/Coffee		16:00
16:10				16:10
16:20				16:20
16:30				16:30
16:40	Geoffrey Grimmett (Cambridge) <i>Criticality and Universality in Random Systems</i>	Owen Jones (Cardiff) <i>Time-Series Imputation Using Low-Rank Matrix Approximations</i>		16:40
16:50				16:50
17:00		Parallel Session 1 (2 x 2 Student Talks)		17:00
17:10				17:10
17:20				17:20
17:30				17:30
17:40	Grigory Garkusha (Swansea) <i>Correspondences and Stable Homotopy Theory</i>	Julia Gog (Cambridge) <i>From Maths to Policy: a COVID-19 Story</i>	17:40	
17:50			17:50	
18:00			18:00	
18:10	Tudur Davies (Aberystwyth) <i>Predicting the Settling Orientation of Cubic Particles Adsorbed at Soap Film or Liquid Interfaces</i>		18:10	
18:20			18:20	
18:30			18:30	
18:40	Pre-Dinner Free Time	Pre-Dinner Free Time		18:40
18:50				18:50
19:00	Dinner	Dinner		19:00
19:10				19:10
19:20				19:20
19:30				19:30
19:40				19:40
19:50				19:50
20:00				20:00

Parallel Session 1		
	Stream 1	Stream 2
17:00	<b>Chadaphorn Punkumkerd</b> (Swansea)	<b>Rabin Poudel</b> (Cardiff)
17:10	A Short-Robust Course in RKHS, and its Applications	A Finite Element Simulation of Liquid Crystal Elastomers
17:20	<b>Mark Hogan</b> (Cardiff)	<b>Gabriela Filipkowska</b> (Cardiff)
17:30	New Asymptotic Integer Caratheodory Rank Bounds	Price Discovery on Bitcoin Exchanges

Parallel Session 2		
	Stream 1	Stream 2
10:00	<b>Ghada Shuker Jameel</b> (Cardiff)	<b>Nataliia Adukova</b> (Aberystwyth)
10:10	Eigenvalue Bounds for Perturbed Periodic Dirac Operators	Factorisation of Matrix Polynomials. The ExactMPF Package
10:20	<b>Bryony Richards</b> (Cardiff)	<b>Alexandra Zverovich</b> (Cardiff)
10:30	Alternating Sign Matrices and Related Objects	Sparse Solver for Large-Scale Quadratic Programs
10:40	<b>Daniel Hambly</b> (Cardiff)	<b>Anastasiia Kovtun</b> (Cardiff)
10:50	Determining Fixed-Length Paths in Edge-Weighted Graphs	Dickman-type Ornstein-Uhlenbeck Processes