PROGRAM

Tuesday, Feb. 5, 2019

9:00	Plenary: **Anna Ceresole** (INFN, Turin, Italy) Supergravity and Unification

	Sapphire Room	**Tasman Room**
10:00	**Yibing Shen** (Univ. of Queensland) Ground-state Energies of the Open and Closed $p + ip$-Pairing Models from the Bethe Ansatz	**Zeying Chen** (Univ. of Melbourne) Exact Solution to a 2-species Exclusion Process
10:30	**Ruijie Xu** (Univ. of Melbourne) The Exact Solution of Reverse Kreweras Walk and Kreweras Walk	**Jon Links** (Univ. of Queensland) Controlled Tunneling of Dipolar Bosons in a Triple-well Potential

11:00	**Coffee**

	Sapphire Room	**Tasman Room**
11:30	**Jan de Gier** (Univ. of Melbourne) Limit Shape of the Asymmetric Five Vertex Model	**Mark Bugden** (ANU) Spherical Photon Orbits in Five Dimensions
12:00	**Murray Batchelor** (ANU) Wrestling with Free Parafermions	**Daniel Snell** (Univ. of Auckland) Distinguished Curves in Projective and Conformal Geometry

12:30	**Lunch**

14:00	Plenary: **Jean-Sébastien Caux** (Univ. of Amsterdam) Quench, Hydro- and Floquet Dynamics in Quantum Integrable Systems

	Sapphire Room	**Tasman Room**
15:00	**Sergei Kuzenko** (Univ. of Western Australia) Higher Spin Multiplets of Conserved Currents	**Yury Stepanyants** (Univ. of Southern Queensland) Soliton Interaction with External Forcing Within the Korteweg-de Vries Equation

15:30	**Coffee**

	Sapphire Room	**Tasman Room**
16:00	**Allan Ernest** (Charles Stuart University) Schrödinger takes Newton to the Dark Side	**Michael Ponds** (Univ. of Western Australia) Higher-spin Cotton Tensors and Topologically Massive Gauge Theories
16:30	**Gabriel Nakhl** (Charles Stuart University) Quantum Dark Matter Gravitational Eigenstates and a Paradigm Shift in Conceptualising Dark Matter	**Jules Lamers** (Univ. of Melbourne) An Exactly Solvable Long-range Spin Chain: The q-deformed Haldane-Shastry Model

PROGRAM

Wednesday, Feb. 6, 2019

9:00	Plenary: **Yupeng Wang** (Institute of Physics Chinese Academy of Sciences) Bethe States of Quantum Integrable Models Without $U(1)$ Symmetry	

	Sapphire Room	**Tasman Room**
10:00	**Daniel Braak** (Max Planck Institute for Solid State Research, Stuttgart, Germany) Spectral Problems in Bargmann Space	**Kyle Wright** (ANU) Recent Progress in Non-isometric T-duality
10:30	**Tim Garoni** (Monash University) A Limit Theorem for the Coupling Time of the Stochastic Ising Model	**Guo Chuan Thiang** (Univ. of Adelaide) String Dualities in/from Condensed Matter

11:00	**Coffee**

11:30	**Abrahim Nasrawi** (Monash University) The Self-Avoiding Walk in a Critical Window	**David Ridout** (Univ. of Melbourne) A Higher-rank Fractional-level WZW Model
12:00	**Xilin Lu** (ANU) Boundary Matrices for the Six-Vertex Model	**Zongzhen Zhou** (Monash University) Two-point Functions of Random Walk Models on High-dimensional Boxes

12:30	**Lunch**

14:00	Plenary: **Mathai Varghese** (Univ. of Adelaide) Exotic Equivariant Cohomology of Loop Space, Localisation and T-duality	
15:00	**Chris Bradly** (Univ. of Melbourne) Monte Carlo Simulation of f-star Lattice Polymers	**Tianshu Liu** (Univ. of Melbourne) Coset construction for the $N = 2$ and affine $osp(1|2)$ minimal models

15:30	**Coffee**

16:00	**Phillip Isaac** (Univ. of Queensland) On the Structure and Representation of Certain Lie Colour Algebras	

16:30	**AGM (Sapphire Room)**
18:00	**Break**
19:00	**Dinner (Sapphire Room)**

PROGRAM

Thursday, Feb. 7, 2019

Sapphire Room

9:00	Plenary: **Clare Dunning** (Univ. of Kent) Wronskian Hermite Polynomials and the Excited-state ODE/IM Correspondence
10:00	Plenary: **Florian Beyer** (Univ. of Otago) General Relativity: The Beautiful Beast
11:30	**Coffee**
12:00	**Didina Serban** (Institut de Physique Theorique, France) Trees, Loops and TBA
9:00	**Francesco Ravanini** (University of Bologna, Italy) Integrability and TBA in Non-equilibrium Emergent Hydrodynamics
12:30	**Lunch**