XMaths Workshop 2020 - Schedule

Dipartimento di Matematica, Università degli Studi di Bari Aldo Moro

Monday 21 December 2020

- 15:00 **Davide Lonigro** (University of Bari):
  Deviations from the exponential law for a generic quantum observable
- 15:30 **Luca Bellino** (Polytechnic University of Bari):
  Mathematical modeling of bio-inspired materials
- 16:00 **Felisia Angela Chiarello** (Polytechnic University of Turin):
  Multiscale control of generic second order traffic models by driver-assist vehicles
- 16:30 *Coffe break*
- 16:50 **Fabio Pizzichillo** (Université Paris Dauphine):
  Boundary value problems for 2-D Dirac operator on corner domains
- 17:20 **Marco Gallo** (University of Bari):
  Fractional nonlinear Schrödinger equations with prescribed mass: story of a particle and its dream of a perfect weight
- 17:50 **Jacopo Schino** (Polish Academy of Sciences):
  When Schrödinger meets Maxwell

Tuesday 22 December 2020

- 15:00 **Flavia Esposito** (John Paul II Oncology Institute, Bari):
  Nonnegative Matrix Factorization models for knowledge extraction from biomedical and other real world data
- 15:30 **Giuseppe Vacca** (University of Milano-Bicocca):
  Virtual Elements for a fluid-structure interaction problem
- 16:00 **Ajani Rufai Mufutau** (University of Bari):
  One-step hybrid block method containing third derivatives and improving strategies for solving Bratu's and Troesch's problems
- 16:30 *Coffe break*

- 16:50 **Ilaria Castellano** (University of Milano Bicocca):
  The Five Ws for totally disconnected locally compact groups

- 17:20 **Antonio Macchia** (Freie Universität Berlin):
  Realizability problems for convex polytopes

- 17:50 **Eugenia Loiudice** (Philipps Universität Marburg):
  How to construct all metric f-K-contact manifolds

- 18:20 **Dario Di Pinto** (University of Bari):
  Some global results on the submanifolds of Sasakian manifolds

Wednesday 23 December 2020

- 15:00 **Fabio Deelan Cunden** (SISSA):
  Airplane boarding, longest increasing subsequences and random matrices

- 15:30 **Giovanni Gramegna** (University of Bari):
  Generic aspects of the Resource Theory of Quantum Coherence

- 16:00 **Gianluca Orlando** (Technical University of Munich):
  Frustration in the antiferromagnetic XY spin system on the triangular lattice: a variational analysis

- 16:30 *Coffe break*

- 16:50 **Caterina Sportelli** (University of Bari):
  A minimax approach to a class of gradient-type quasilinear (p1, p2)-Laplacian system

- 17:20 **Fabio Difonzo** (CTU in Prague):
  A Mass conservative quadrature-based scheme for numerical solutions to Richard's equation

- 17:50 **Laura Selicato** (University of Bari):
  Optimization Mechanism in Machine Learning and Data Science