



# Xmas Workshop 2019

## Thursday, 19 December

9.00 *Opening.*

**9.30** Antonella Falini (Università degli Studi di Bari):  
*QI based Quadrature Schemes with applications to (Adaptive) IgA-BEMs*

**10.05** Angela Martiradonna (IAC, Bari):  
*Optimal control models for invasive species: analysis, methods and applications*

10.40 *Coffee break*

**11.10** Federica Caforio (Medical University of Graz):  
*In silico-models of the human circulation: towards a digital twin*

**11.45** Mufutau Rufai (Università degli Studi di Bari):  
*Last point second-derivative Lobatto type method for solving efficiently first-order differential problems*

## Friday, 20 December

9.00 *Opening.*

**9.30** Maria Colomba Comes (Università degli Studi Tor Vergata, Roma):  
*More than a simple cell trajectory: time-lapse microscopy and mathematical algorithms to improve the understanding of biological systems*

**10.05** Eugenia Loiudice (Philipps-Universität Marburg):  
*On the topology of metric  $f$ -K-contact manifolds*

10.40 *Coffee break*

**11.10** Alessandra De Luca (Università degli Studi di Milano-Bicocca):  
*Monotonicity formula and its applications to the unique continuation property for elliptic problems*

**11.45** Vincenzo Scattaglia (Università degli Studi di Pisa):  
*A short tour from the Classical Isoperimetric Problem to Clusters with Density*

**12.20** Nico Michele Schiavone (Università degli Studi La Sapienza, Roma)  
*Localization estimates for eigenvalues of non-self-adjoint Dirac operators*

*Lunch*

**14.30** Giovanni Girardi (Università degli Studi di Bari):  
*Critical regularity of nonlinearities in semilinear classical damped wave equations*

**15.05** Felisia Chiarello (INRIA Sophia-Antipolis):  
*Non-local conservation laws for traffic flow modelling*

15.40 *Coffee break*

**16.10** Maria Elena Griseta (Università degli Studi di Bari):  
*Distributions for non symmetric weakly monotone position operators*

**16.45** Pasquale Cascarano (Università degli Studi di Bologna):  
*When did Maths and Images start dating? A gentle introduction to Image Super Resolution in a Variational Framework*