



Special Session 32 - "Recent trends in biomathematics: modelling patterns and collective dynamics from micro to macro"

Building: Rettorato

Room: Accademia Peloritana dei Pericolanti

Tuesday, 8 September	
11:00 – 11:20	Luigi Preziosi <i>Modelling Cell Reorientation under Stretch</i>
11:20 – 11:40	Fernanda Pinheiro <i>Growth and efficiency principles of bacterial metabolism</i>
11:40 – 12:00	Maria Carmela Lombardo <i>Exploring immune pathways and remyelination in Multiple Sclerosis</i>
12:00 – 12:20	Nathan Silvano <i>Flow spatial structure determines pattern instabilities in nonlocal models of population dynamics</i>
12:20 – 12:40	Florinda Capone <i>Turing Instability and Pattern Formation in a Spatial HIV Model</i>
14:30 – 14:50	Pablo de Castro <i>Statistical Physics of Active Particles: From Clustering to Survival in Toxic Landscapes</i>
14:50 – 15:10	Martina Conte <i>Multi-scale modeling of action potential dynamics in neural networks</i>
15:10 – 15:30	Rafael Menezes <i>Crowding indexes as a bridge between individual behaviour and population dynamics in spatially-structured populations</i>
15:30 – 15:50	Lucas Wardil <i>The stochastic origins of costly sexual signals</i>