S03: Recent Advances on the Mathematical and Numerical Modeling of Epidemics **Organizers**: Nicola Parolini, Andrea Pugliese and Ezio Venturino		
Part I - Monday, August 28th		
Time	**Speaker**	**Name of the talk**
15:45-16:10 16:10-16:35	Mimmo Iannelli	Understanding and Controlling COVID-19: classical methods for current challenges
16:35-17:00	Francesca Acotto	Two epidemic models with cautionary response in the presence of asymptomatic individuals
17:00-17:25	Alessio Oliviero	On the control of SEIR models in epidemiology
17:25-17:50	Mattia Sensi	A general kinetic model for the spread of infectious diseases in continuously structured compartments
Part II - Tuesday, August 29th		
Time	**Speaker**	**Name of the talk**
10:45-11:10 11:10-11:35	Francesca Scarabel	Numerical methods for time since infection models in public health
11:35-12:00	Simone De Reggi	A numerical method for the stability analysis of linear age-structured models with nonlocal diffusion
12:00-12:25	Piero Manfredi	After COVID-19: remarks on pandemic control
12:25-12:50	Lorenzo Pellis	Novel methods for the analysis of household-stratified infection data
12:50-13:15	Sara Sottile	A geometric analysis of the SIRS model with secondary infections
Part III - Tuesday, August 29th		
Time	**Speaker**	**Name of the talk**
15:45-16:10 16:10-16:35	Vincenzo Capasso	Predators as a possible strategy for controlling a Xylella Fastidiosa epidemic
16:35-17:00	Giulia Bertaglia	Solving inverse and forward problems of multiscale epidemic spread with neural networks
17:00-17:25	Jonathan Franceschi	Optimal control on a kinetic epidemic model with uncertain social features
17:25-17:50	Giovanni Ziarelli	Enhanced methods for reliable predictions and for epidemic control
17:50-18:15	Nadia Loy	Modelling the role of individuals' viral load in the spread of infectious diseases