

## *Program*

### **Monday, July, 6**

15:00 – 15:45 Massimo Villarini (University of Modena and Reggio Emilia), *Variational principles in Hamiltonian mechanics: from the multiplicity of periodic orbits to an approach to existence of invariant tori*

15:45 – 16:30 Gabriele Villari (University of Florence), *Recent progress on particle trajectories in steady water waves*

16:30 – 16:45 *Coffee break*

16:45 – 17:10 Marco Spadini (University of Florence), *Degree of a tangent vector field on some zero sets in  $\mathbb{R}^n$  with applications to forced oscillations of constrained systems*

17:10 – 17:35 Elena Bosa (University of Udine), *Planar Hamiltonian systems possessing a linked twist maps geometry: some examples*

17:35 – 18:00 Alessandro Calamai (Marche Polytecnic University, Ancona), *Continuation results for retarded functional differential equations on manifolds and applications to the spherical pendulum*

### **Tuesday, July, 7**

9:30 – 10:15 Russell Johnson (University of Florence), *On the Pliss reduction principle for nonautonomous differential systems*

10:15 – 11:00 Kenneth Palmer (University of Taipei), *Lyapunov exponents and sensitive dependence.*

11:00 – 11:15 *Coffee break*

11:15 – 11:40 Roberta Fabbri (University of Florence), *Rotation number and exponential dichotomy for linear nonautonomous Hamiltonian systems: theoretical and numerical aspects*

11:40 – 12:05 Luca Zampogni (University of Perugia), *The correspondence between  $K$ - $dV$  and Camassa Holm hierarchies and some of its consequences*

12:05 – 12:30 Matteo Franca (Marche Polytecnic University, Ancona), *Persistence of homoclinic trajectories in discontinuous systems*