ABSTRACTS

TUESDAY 9
11:45 – 12:00 OPENING
12:00 – 13:00 Introductory Talk
13:00 – 14:30 LUNCH
14:30 – 14:55 Talk: J. Borge (Coexisting patterns in n-dimensional ecosystems)
14:55 – 15:20 Talk: D. Gomila (Pattern formation in Posidonia Oceanica meadows)
15:20 – 15:45 Talk: F. Cao (Spatial scales of population synchrony: effects of competition, predation and harvesting)
15:45 – 16:15 COFFEE BREAK
16:15 – 16:40 Talk: E. Hernández-García (Modeling the connectivity of marine populations by Lagrangian flow networks)
16:40 – 17:05 Talk: G. Bunin (Models of ecological communities: genericity and collective phenomena)
17:05 – 17:30 Talk: J. Fernández (Inferring social relations from presence data. Manta Rays case study)
WEDNESDAY 10
09:00 – 09:50 Keynote talk: Jens Krause
09:50 – 10:15 Talk: M. Lukovic (Sub-diffusive behaviour of benthic copepods – evidence for active counter-current swimming and drift avoidance in advective media)
10:15 – 10:40 Talk: F. Peters (Small-scale physical-ecological interactions in the ocean: The case of turbulence and plankton)
10:40 – 11:30 COFFEE & POSTERS
11:30 – 12:20 Keynote talk: Andreas Huth
12:20 – 12:45 Talk: J. Alòs (How ecology shapes optimal collective searching behaviour in uninformed human foragers)
12:45 – 13:10 Talk: G.M. Palamara (A stochastic age-structured population model to quantify sublethal effects of pesticides on Daphnia clonal populations)
13:15 – 14:30 LUNCH
14:30 – 15:20 Keynote talk: Gonzalo Polavieja
15:20 – 15:45 Talk: G. Madirolas (Predicting the outcome of chemotaxis without behavioral details)
15:45 – 16:10 Talk: E. Colombo (Species mixing determines predators' optimal perception range and coexistence times in predatorprey dynamics)
16:10 – 16:35 Talk: J. Lukas ('La Olá' waves of the sulphur molly: integration of multiple predator cues in an extreme environment)
16:35 – 17:00 Talk: A. Campos (A mechanistic framework linking behaviour with dynamic energy budgets to test personality-dependent movement behaviour)
17:30– 21:30 SOCIAL EVENT & DINNER
THURSDAY 11
09:00 – 09:50 Keynote talk: Mercedes Pascual
09:50 – 10:15 Talk: A. Dobson (Joining the Dots – Using Generalized Consumer Resource Model to understand the dynamics of two large terrestrial ecosystems: Serengeti and Yellowstone)
10:15 – 10:40 Talk: V. Baulin / M. Werner (Machine learning methods in ecology: a new field for physicists)
10:40 – 11:05 Talk: J.A. Capitán (Coexistence of many species in large ecosystems: The problem of the random zoo)
11:05 – 11:35 COFFEE BREAK & POSTERS
11:35 – 13:15 FINAL DEBATE: PHYSICS & ECOLOGY
13:15 – 13:30 CONCLUDING REMARKS