

Workshop Biomathematics (BIO)

Thursday

Parallel session Th1: Optimization meets biomathematics - Controlled Biological Dynamical Systems

Organizers: Héctor Ramírez & Pedro Gajardo

Chair: Pedro Gajardo

Room: D'Etigny

11h00-11h30	Alain Rapaport	MISTEA, Montpellier, France	Weak resilience to invasion in the chemostat model and asymptotically periodic controls
11h30-12h00	Olga Vasilieva	U. del Valle, Colombia	Optimal control approach for implementation of sterile insect techniques
12h00-12h30	Diego Vicencio	USM, Chile	Viability Kernels in Monotone Controlled Dynamical Systems and Ecological Applications

Parallel session Th2: Mathematical modeling for natural resources and cancer progression

Organizers: Héctor Ramírez & Alejandro Maass

Chair: Alain Rapaport

Room: Seminar room 4th floor

14h00-14h30	Karina Vilchez	UC Maule, Chile	Emergent behaviors in multi-cellular tumor progression including micro-environmental interactions
14h30-15h00	Héctor Olivero	U. Valparaiso, Chile	Synchronization and propagation of chaos for mean field networks of Hodgkin-Huxley neurons with noisy channels
15h00-15h30	Gerard Olivar	U. Aysen, Chile	Convenient growth of renewable resources for stability of sustainable development