

Seminar EDPs

Speaker: Exequiel Mallea (U. Tarapacá).

Título: A regularity criterion for a 3D chemo-repulsion system and its application to a bilinear optimal control problem.

Abstract:

We will study a bilinear optimal control problem associated to a 3D chemo-repulsion model with linear production. We prove the existence of weak solutions, and establish a regularity criterion to get global-in-time strong solutions. As a consequence, we deduce the existence of a global optimal solution with bilinear control, and, using a Lagrange multipliers theorem in Banach spaces, we derive first-order necessary optimality conditions for each local optimal solution.

Martes 13 de octubre a las 4pm, en el link zoom

<https://uchile.zoom.us/j/88121344517?pwd=aHYreWlyWDBGcVUxdGNMZjN2SzNFZz09>
pass: 962768