

CMM PDE Seminar

Speaker: Javier Monreal, Universidad de Chile.

Title: Variational Approach for the Singular Perturbation Domain Wall Coupled System.

Abstract:

In this talk, I will present results on a singular perturbation problem modeling domain walls. I will discuss the existence of solutions both when the perturbation parameter is non-zero and when it is set to zero (Thomas-Fermi approximation), demonstrating their continuous connection as the parameter approaches zero. Finally, I will show that the behavior of one of the variables can be modeled by a Painlevé II equation in the limit, by the use of an appropriate change of variables.

Monday, September 9th at 12:10 pm.

Venue: DIM seminar room, Beauchef 851, 5th floor.

Zoom: <https://uchile.zoom.us/j/96642349167?pwd=MkRVbWxzOFBUUXlCTWFicW0reWZ6dz09>

For further information, see our webpage: <https://eventos.cmm.uchile.cl/pdeseminar/>

