

DIM-CMM PDE Seminar

Speaker: Daniel Restrepo (Johns Hopkins University)

Title: Asymptotic behavior and rigidity in one-phase free boundary problems.

Abstract: In this talk, we will present some results concerning the behavior of solutions to the one-phase Bernoulli problem that are modeled --either at infinitesimal or at large scales-- by one-homogeneous solutions with isolated singularity. We address the uniqueness of blow-up and blow-down limits provided that the one homogeneous solution has additional symmetries (integrability through rotations), and establish a rigidity type theorem, in the spirit of Simon-Solomon, given suitable conditions on the linearized operator around the one-homogeneous solution. This is joint work with Max Engelstein (U Minnesota) and Zihui Zhao (Johns Hopkins).

For those unable to attend in person, the talk will also be available via Zoom at the following link:
<https://uchile.zoom.us/j/93613339766?pwd=vB3J7Vhb0EX3kQDHfH741CKN19YKQz.1>

Wednesday 12th, at 16:15 hs in the Sala de Seminarios (Beauchef 851, DIM, fifth floor)..

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

