

## CMM PDE Seminar

**Speaker:** Nicolás Barnafi (CMM).

**Title:** Variational techniques for non-trivial boundary conditions in fluid dynamics and beyond.

**Abstract:** Despite the widely spread usage of no-slip boundary conditions in fluid dynamics, there exist several applications where it is not true that the fluid sticks to the boundary. Instead, the natural condition is setting the normal flux to zero, and then complementing the tangential direction with certain friction conditions known as the Navier boundary condition. In this talk, we will explore the many issues that can arise from strongly imposed boundary conditions in this setting, and how such issues can be alleviated in a way that additionally allows for extreme scale numerical simulations.

**Monday, October 02, 2023 at 12 Santiago time.**

**Venue:** Online via Zoom / Sala de Seminarios, 5th floor, Beauchef 851

El link para acceder online:

<https://reuna.zoom.us/j/84942833177?pwd=UTVmRnBqTFIsVTh0QjZuNXRQTnUrdz09>

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

