

CMM PDE Seminar

Speaker: Oscar Jarrín, Universidad de las Américas de Ecuador

Título: From non-local to local Navier-Stokes equations

Resumen: Inspired by some experimental (numerical) works on fractional diffusion PDEs, we develop a rigorous framework to prove that solutions to the fractional Navier-Stokes equations, which involve the fractional Laplacian operator, converge to a solution of the classical case. Precisely, in the setting of mild solutions, we prove uniform convergence in both the time and spatial variables and derive a precise convergence rate, revealing some phenomenological effects.

Sala de seminarios DIM del 5o piso o bien vía zoom:

<https://uchile.zoom.us/j/96642349167?pwd=MkRVbWxzOFBUUXICTWFicW0reWZ6dz09>

Lugar y fecha: Sala John Von Neumann (séptimo piso), 18 de Marzo a las 16:15 hs.

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

