

Seminario de EDPs

Primera Sesión 4pm.

Expositor: Paola Rioseco, (ULS)

Título: Relativistic kinetic theory with applications in astrophysics.

Abstract:

I will review the relativistic kinetic theory and apply it to two phenomena. The first phenomenon is the accretion of matter around the Schwarzschild black hole, where we calculated its accretion rate. The second phenomenon concerns the dynamics of the kinetic gas for a thin disk in the equatorial plane of the Kerr black hole. In this case, the so-called mixing phenomenon appears, which causes that the gas configuration relaxes to a stationary axisymmetric state.

Segunda Sesión 5 pm.

Expositor: Juan C. Pozo, (UFRO-UCH)

Título: Fundamental solutions of time-fractional evolution equations.

Abstract: In this talk, we will describe some new results concerning the integrability of the fundamental solutions to time-fractional reaction-diffusion equations. These results are markedly different from the standard reaction-diffusion equation. We prove that if d is large enough then the fundamental solutions do not belong to $L_p(\mathbb{R}^d)$. This is joint work with Vicente Vergara (DM-UdeC).

Martes 07 de Julio a las 4pm.

El link zoom es el siguiente:

<https://uchile.zoom.us/j/84030438594?pwd=MGFDU0NISHR4NFhIK1ZvcVVIYWNZQT09>

Meeting ID: 840 3043 8594

Password: 570405