CMM
Center for Mathematical Modeling

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CMM PDE Seminar

Speaker: Hanne Van Den Bosch, Universidad de Chile.

Title: **"Spectrum of the linearized Vlasov-Poisson system."**

Abstract: The Vlasov-Poisson system describes a macroscopic number of particles with their mutual gravitational attraction in a mean-field approximation. Its steady-state solutions are known as "polytropes" and a popular model for galaxies in the astronomy literature. In many cases, they are known to be neutrally stable, but the question of asymptotic stability is widely open. The goal of this talk is to present some results on the linearized equation around a steady state.

This is based on joint work with Matías Moreno and Paola Rioseco.

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

Monday, October 21th at 12:10 pm.

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

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