

CMM PDE Seminar

Speaker: Felipe Poblete (Universidad Austral de Chile)

Title: Long time asymptotics of large data in the Kadomtsev-Petviashvili models and geometrical aspects of its dynamics

Abstract: In this talk we consider the Kadomtsev-Petviashvili equations posed on $\mathbb{R}^2$. For both models, we provide sequential in time asymptotic descriptions of solutions obtained from arbitrarily large initial data, inside and far regions of the plane not containing lumps or line solitons, and under minimal regularity assumptions. A geometrical description of the dynamics will be given in terms of parabolic regions.

Joint work with A. J. Mendez, C. Muñoz and J.C. Pozo

Tuesday, January 10, 2023 at 12 Santiago time

To be held in person at **Sala de seminarios DIM, 5th floor**, Beauchef 851, and online via zoom:
<https://uchile.zoom.us/j/93440662992?pwd=Z3RkckJaeElKQnVUZjNnNXpVcXJadz09>

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