



UNIVERSIDAD
DE LA FRONTERA

SEMINARIO CRUZ DEL SUR

DEPARTAMENTO DE MATEMÁTICA Y ESTADÍSTICA

The Cauchy problem for the Kadomtsev-Petviashvili hierarchy of differential equations

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ABSTRACT.

First I'll talk briefly on "nonlocal equations" and then I'll focus on the main subject of this presentation, the Cauchy problem for the Kadomtsev-Petviashvili (KP) hierarchy. My main goal is to show that one can solve all the equations of the KP hierarchy using a factorization of an infinite dimensional Lie group of pseudo-differential operators.