

COLÓQUIOS 2015
DEPARTAMENTO DE MATEMÁTICA

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FALARÁ SOBRE

**On a generalized CH equation with peakon traveling
wave solutions**

We shall discuss the initial value problem for a generalized Camassa-Holm equation with higher order nonlinearities and containing as its members three integrable equations—the Camassa-Holm, the Degasperis-Procesi and the Novikov equations. For $s > 3/2$ we shall show that this equation is well-posed in Sobolev spaces H^s on both the circle and the line in the sense of Hadamard. That is, the data-to-solution map is continuous. However, it is not uniformly continuous. This is work in collaboration with Curtis Holliman and Dionyssis Mantzavinos. Also, we shall discuss the well-posedness of this equation in spaces of analytic functions, which is work in collaboration with Rafael Barostichi and Gerson Petronilho.

Quarta-feira, 29 de julho
16 horas

Departamento de Matemática
Auditório