

INSTITUTUL DE MATEMATICA "SIMION STOILOW" AL ACADEMIEI ROMANE



CENTRE FRANCOPHONE  
EN MATHÉMATIQUES  
BUCAREST

Atelier de travail en *Equations aux Dérivées Partielles*

# *Stabilization of a Boussinesq system of Benjamin-Bona-Mahony type*

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**Abstract:** We study the stability properties of a family of Boussinesq systems proposed by J. L. Bona, M. Chen and J.-C. Saut to describe the propagation of water waves on the surface of a canal, under the effect of a damping term. By means of spectral analysis and Fourier expansion, we prove that the solutions of the linearized system may have an uniform decay to zero or not. In the uniform decay case, we show that the same property holds for the nonlinear system. Joint work with Sorin Micu from University of Craiova

[Notes de l'exposé](#)

**Miercuri 10 mai 2017, ora 10:00, sala 306 -307 "C. Bănică"**