

SEMINAIRE D'ANALYSE

➤ **VENDREDI 10 OCTOBRE 2014 à 15h15 - salle MA A331**

Dr. Boris Buffoni (EPFL, Lausanne) donnera une conférence sur le thème:

«A variational reduction and the existence of fully localized surface with weak surface tension »

Lumps are fully localized waves travelling at the upper surface of a three-dimensional layer of perfect irrotational fluid. They were observed numerically in presence of gravity and surface tension when the density is constant and the depth finite.

Their existence was also proved mathematically when in addition the surface tension is strong.

The aim is to extend the existence result to the regime of weak surface tension.

This is work in progress jointly with M. D. Groves and E. Wahlén.

Lausanne, le 1er octobre 2014
BD/vl