

Mathematics Colloquium

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Water waves

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Abstract. The water waves equation describe the motion of the free surface of an incompressible, irrotational fluid (water) under the action of gravity and capillary forces. The aim of this talk will be to provide an overview of the most interesting problems arising in the study of water waves, as well as some recent ideas and results in this direction. All this work is joint with Mihaela Ifrim, and, in part, with several other collaborators.