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DEPARTMENT OF APPLIED MATHEMATICS APPLIED SEMINAR SERIES 2007

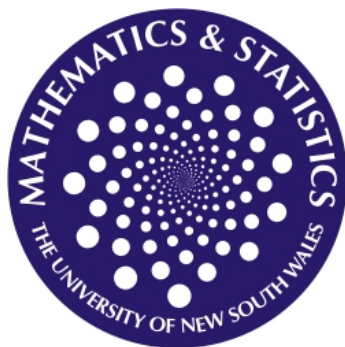
The Seminar Series of the Department of Applied Mathematics, UNSW, Sydney is dedicated to the announcement, dissemination and discussion of research in mathematics and its applications. A fundamental aim of the Seminar Series is to feature lectures that inform in a manner that makes the subject accessible to the audience, including non-specialists.

SPEAKER: Mats Ehrnström, Centre for Mathematical Sciences, Lund University, Lund. Sweden.

TITLE: Rotational water waves: uniqueness and particle trajectories

Abstract: We study travelling water waves, mathematically modelled as an elliptic free-boundary value problem. The question of uniqueness is discussed, in particular concerning rotational water waves. This is based on sharp maximum principles for elliptic PDEs. Moreover, this is related to the particle trajectories within water waves. We rigorously prove the behaviour of those.

TIME AND VENUE: 3pm, Tues 16 October 2007, Room 4082, Red Centre.



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