Pathways Lecture Series in Mathematics, KEIO

Speaker : Prof. David Lannes
（Université Bordeaux I）

Place : 12-209, 2nd Floor, Building 12
Faculty of Science and Technology
Yagami Campus, Keio University

Lecture 1	10:00〜12:00, 14:00〜16:00, March 22, 2007
Lecture 2	10:00〜12:00, 14:00〜16:00, March 24, 2007
Lecture 3	10:00〜12:00, 14:00〜16:00, March 26, 2007

Mathematical tools and asymptotics for water-waves

The aim of these lectures is to introduce the mathematical tools necessary to the analysis of the water-waves equation and the derivation and justification of asymptotic models in various physical regimes.

Organization:

Part I: Physical background
Part II: Pseudo-differential operators
Part III: Hyperbolic systems
Part IV: A simple Nash-Moser theorem
Part V: The Dirichlet-Neumann operator
Part VI: Derivation of the main physical models
Part VII: Main steps of the well posedness theory for the water-waves equations

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