

第2回 井口 達雄 氏

- 講演者：井口 達雄氏 (慶応大学理工学部)
- 題目：Initial value problem to a shallow water model with a floating solid body
- 日時：2018年 11月 28日 (水) 16:30 – 18:30
- 場所：野田キャンパス 4号館3階 数学科セミナー室
- 「解析学とその周辺@野田」

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abstract

In this talk we are concerned with the well-posedness of the initial value problem to a shallow water model for two-dimensional water waves with a floating solid body. We consider three cases: the body is fixed, the motion of the body is prescribed, and the body moves freely according to Newton's laws. The difficulty of the analysis comes from the fact that we have to treat the contact points, where the water, the air, and the solid body meet. This model yields a new type of free boundary problems for a quasilinear hyperbolic system. We will report that the initial value problem to this model is in fact well-posed. This result is based on the joint research with David Lannes at University of Bordeaux.

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