

## **Control and stabilization of water waves**

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This talk is about the controllability and the stabilization of the incompressible Euler equation with free surface. The goal is to understand the generation and the absorption of water waves in a wave tank. These two problems are studied by two different methods: microlocal analysis for the controllability, and study of global quantities for the stabilization (multiplier method, Pohozaev identity, hamiltonian formulation, Luke's variational principle, conservation laws...).