

BERTI Massimiliano

Quasi-periodic standing wave solutions of gravity-capillary water waves

We prove the existence of Cantor families of small amplitude time quasi-periodic standing wave solutions (i.e. periodic and even in the space variable x) of a 2-dimensional ocean with infinite depth under the action of gravity and surface tension. In addition we prove that these solutions are linearly stable. Joint work with Riccardo Montalto.