The nonlinear stability/ instability of water waves

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摘要： In this talk I will begin with a brief review of the mathematical analysis of water waves, dating from Euler, Cauchy, Stokes, to the modern Cauchy theory. Then I will discuss the nonlinear modulational instability of Stokes waves and the transition of Rayleigh-Taylor instability. Also, I will discuss some recent work regarding the global dynamics which allow nonzero vorticity.

个人简介：苏庆堂，中国科学院晨兴数学所副研究员，研究兴趣为偏微分方程。2019年博士毕业于密歇根安娜堡大学，师从著名数学家邬似珏教授，已发表多篇学术论文在CMP, ARMA, Annals of PDE等国际权威期刊上。