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Albert Ai, Mihaela Ifrim and **Daniel Tataru*** (tataru@math.berkeley.edu). *Low regularity well-posedness for water waves.*

The aim of this talk will be to provide a brief overview of recent results on low regularity well-posedness results for gravity waves in deep water. This is a fully nonlinear, nonlocal evolution which describes the motion of an incompressible, inviscid, irrotational fluid with a free boundary. This is joint work with Albert Ai and Mihaela Ifrim. (Received September 13, 2020)