

Experimental investigation of gravity-capillary solitary waves in deep water

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I will discuss our experimental work on the generation and dynamics of gravity-capillary solitary waves (lumps) in deep water. I will review some of the earlier work on this topic and report our recent experiments on the periodic generation of lumps near the minimum phase speed of linear gravity-capillary waves, the nonlinear interaction of these lumps, and the evolution and decay of free lumps.