

Abstract Submitted
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Visualization of hydrodynamic pilot-wave dynamics¹ VICTOR PROST, JULIO QUINTELA, MIT, DANIEL HARRIS, UNC, PIERRE-THOMAS BRUN, JOHN BUSH, MIT — We present a low-cost device for examining the dynamics of droplets bouncing on a vibrating fluid bath, suitable for educational purposes. Dual control of vibrational and strobing frequency from a cell phone application allowed us to reduce the total cost to 60 dollars. Illumination with inhomogeneous colored light allows for striking visualization of the droplet dynamics and accompanying wave field via still photography or high-speed videography.

¹Thanks to the NSF

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