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Frictional effects on liquid marbles¹ GUILLAUME LAGUBEAU, ANTONELLA RESCAGLIO, FRANCISCO MELO, Universidad de Santiago de Chile, CHRISTOPHE CLANET, Ladhyx, France, DAVID QUÉRÉ, PMMH-ESPCI, France — Liquid marbles are liquid drops coated with hydrophobic grains. This kind of interfaces has a dual nature as it mixes the capillar behavior of the liquid with the granular properties of the grains cap. This induces remarkable properties that have been shown recently and used for example for stabilization of liquid foams. Nevertheless, their fundamental mechanisms have yet to be fully understood. We present here an experimental study of statics and dynamics effects of the solid friction between grains on the liquid marbles properties.

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