

Abstract Submitted
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Rheology of Foams Bubble by Bubble STEPHAN KOEHLER,
Physics, Emory University — We present rheological measurements of single bubbles, and collections of bubbles to investigate cooperative effects between the bubbles that comprise a foam. For small numbers of monodisperse bubbles we measure the elastic behavior and yield stresses, and make comparisons with polydisperse foams composed of many bubbles. We also present a technique for measuring an ageless foam, where the bubble size and liquid volume fraction remain constant, outside of a microgravity environment.

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