## Abstract Submitted for the DFD11 Meeting of The American Physical Society

Spreading of thin rotating films: Competition of thermal Marangoni, centrifugal, and gravitational forcing JOSHUA DIJKSMAN, Duke University, SHOMEEK MUKHOPADHYAY, UC Riverside, ROBERT BEHRINGER, Duke University — We experimentally probe the quasi static spreading of a sessile drop on a substrate under the influence of competing gravitational, thermo capillary (Marangoni) and centrifugal forcing. We use silicone oil on a prewetted silicon wafer, and we employ an interferometric technique to study the evolution of the film height profile. We discuss our results in the context of recent theory developed by Bostwick et al.

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