

Abstract Submitted
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Dewetting Dynamics from Polymer Interfaces ANDREI FLUERASU¹, Brookhaven National Laboratory, LAURENCE LURIO², Department of Physics, Northern Illinois University, JYOTSANA LAL³, Argonne National Laboratory — The dewetting dynamics from metastable polymer/polymer interfaces is studied using X-ray Photon Correlation Spectroscopy (XPCS). In addition to more “usual” situations where XPCS correlation functions are used to measure out-of-plane height fluctuations (e.g. capillary waves), we show how this novel method can be used to measure in-situ in-plane motion of the dewetting film. The experimental correlation functions associated with this motion are fitted remarkably well by a simple model considering the growth of dewetting rims in the beam footprint.

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