

Abstract Submitted
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Creasy modeling of a compressed elastic surface TUOMAS TALLINEN, L. MAHADEVAN, Harvard University — Compression of an elastic layer attached to a rigid substrate leads to nucleation and growth of creases. We explore crease formation by a numerical model allowing control of compressive strain, anisotropy and bulk modulus. We address questions on arrangement and geometry of creases and model also the stabilizing effect of surface tension at small scales.

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