

Abstract Submitted  
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**Interaction of two cracks in plastic sheets** STEPHANE SANTUCCI, MARIE-JULIE DALBE, Laboratoire de Physique, Ecole Normale Supérieure de Lyon, JUHA KOIVISTO, COMP Center of Excellence, Department of Applied Physics, Aalto University, Finland, LOIC VANEL, OSVANNY RAMOS, Institut Lumière Matière, Université de Lyon, France, MIKKO ALAVA, COMP Center of Excellence, Department of Applied Physics, Aalto University, Finland — We study experimentally the interaction of two cracks in a plastic sheet submitted to uniaxial stress at a constant imposed velocity. We can observe a repulsive regime, where the cracks deviate with an angle, which depends on the geometrical parameters as well as on the material studied.

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