

**FROM SPECIAL BOUNDED DEFORMATION TO SPECIAL BOUNDED HESSIAN :  
THE ELASTIC-PLASTIC LINEAR BEAM**

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*ABSTRACT - Slender beams with small cracks described by  $\Gamma$  limits: a description of an elastic-perfectly plastic beam or rod is obtained as a variational limit of 2D or 3D bodies with damage at small scale satisfying the Kirchhoff cinematic restriction on the deformations.*

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