

# A quasistatic evolution model for perfectly plastic plates derived by $\Gamma$ -convergence

Elisa Davoli and Maria Giovanna Mora

We consider an evolutionary dimension reduction problem for a thin plate whose elastic behaviour is linear and isotropic and whose plastic behaviour is governed by the Prandtl-Reuss flow rule without hardening (perfect plasticity). A lower dimensional model is deduced by  $\Gamma$ -convergence. A convergence result for a sequence of 3D quasistatic evolutions to a reduced quasistatic evolution for the limit model is established.

## REFERENCES

- [1] E. Davoli, M.G. Mora: *A quasistatic evolution model for perfectly plastic plates derived by Gamma-convergence*, in preparation.