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### Macroscopic and Microscopic Behavior of Narrow Elastic Ribbons

[Roberto Paroni](#) & [Giuseppe Tomassetti](#)

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#### Abstract

A one-dimensional model for a narrow ribbon is derived from the plate theory of Kirchhoff by means of a power expansion in the width variable. The energy found coincides with the corrected Sadowsky's energy. Furthermore, we derive the Euler-Lagrange equations and use them to study an equilibrium configuration of a twisted ribbon. Within this example we also describe how to construct the fine scale oscillations that develop in the deformed configuration.

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