

Programming the nonlinear bending response of architected beams

Émilien Dilly, Basile Radisson, Emmanuel Siéfert

LIPhy, CNRS, UGA, Grenoble

Inspiration

Drooping of petioles under water stress

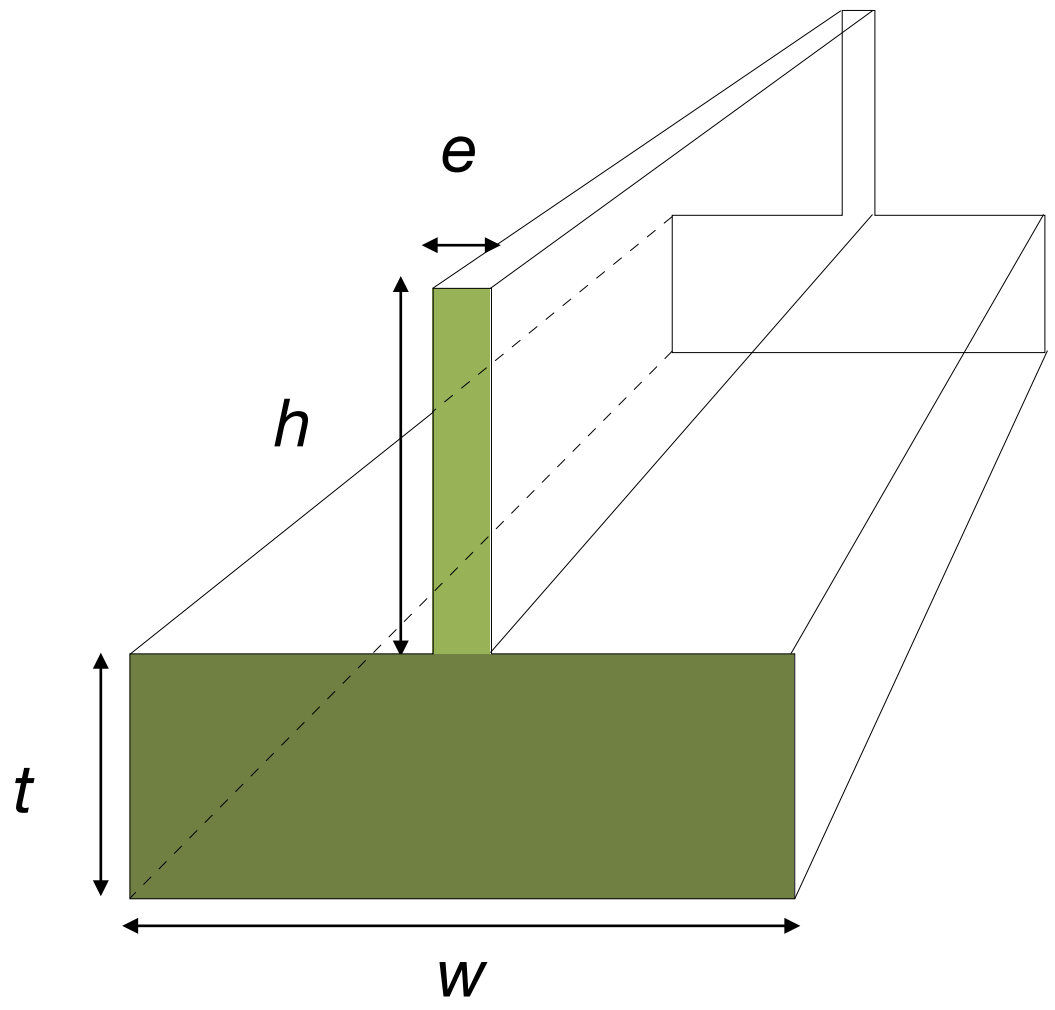


Spathiphyllum Cross section

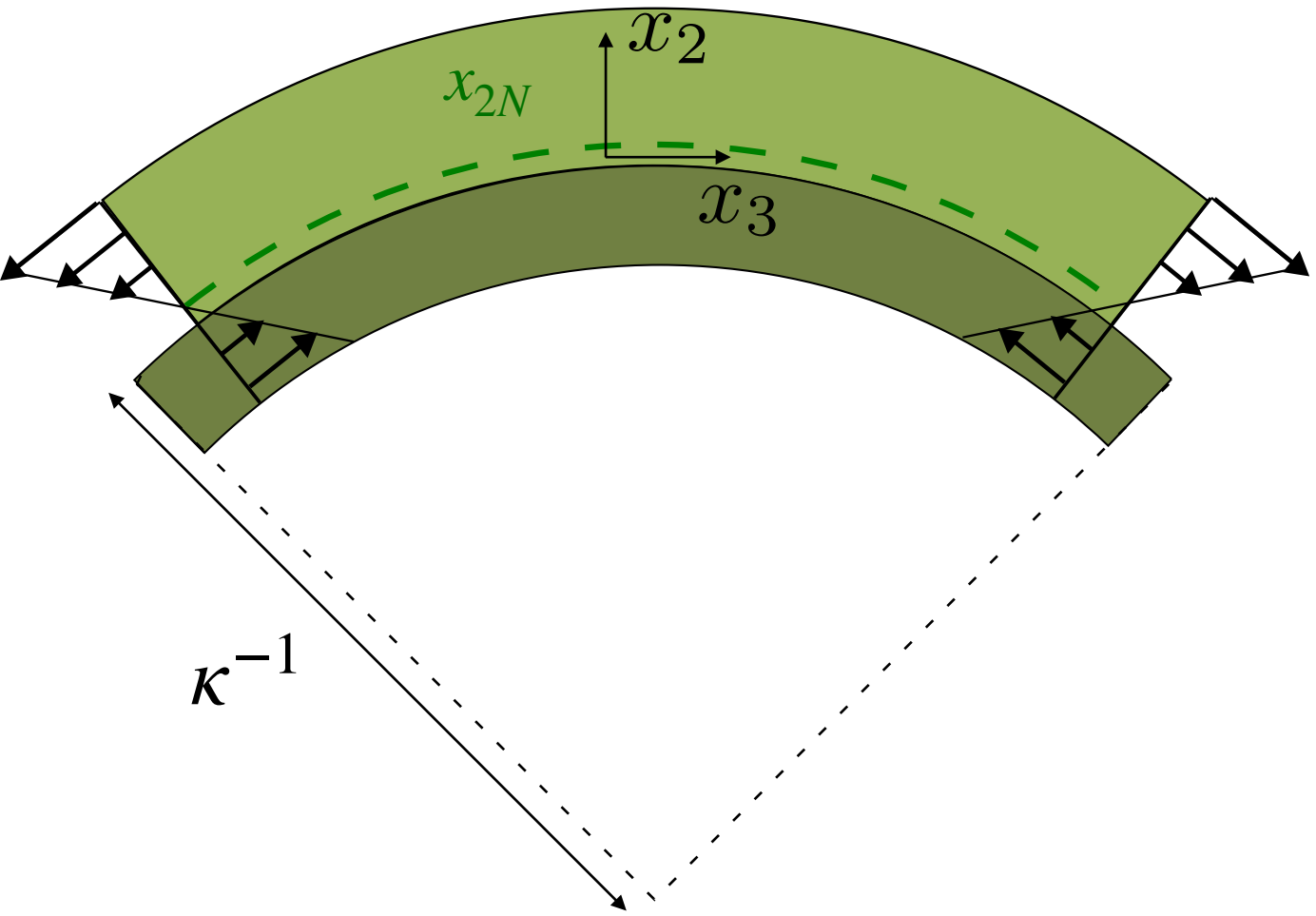


Model system

A beam decorated by a single vertical wall subjected to bending



3D shape



Side view

