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“Geometry of growing soft tissues”

During their growth soft biological tissues are often subjected to forces that affect the tissue geometry. For simple cases the weakly nonlinear elastic theory of growth is tractable: we have shown that a thin elastic disc forms a shape reminiscent of a saddle when growing anisotropically. In the fully nonlinear regime the theory could be extended to more complicated cases with the help of differential geometry. Strains and stresses were determined, as well as the shapes during growth.

Dienstag, 08. Dezember 2009, 14.00 c.t.

Gebäude E2 6, Seminarraum E.04

Alle Interessenten sind herzlich eingeladen.

Die Sprecher des Graduiertenkollegs
Manfred Lücke und Ludger Santen

**Strukturbildung und Transport
in komplexen Systemen**