

EINLADUNG

zum Vortrag
von

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Sensors and Actuators Based on Liquid-Crystalline Elastomers

am

Dienstag, 29. Jänner 2013, um 17:30 Uhr

Ort: Lise-Meitner-Hörsaal, Fakultät für Physik, Universität Wien,
1090 Wien, Strudlhofgasse 4 / Boltzmannngasse 5, 1. Stock

Barrierefreier Zugang: Boltzmannngasse 5, Lift, 1. Stock rechts über den Gang zum Hintereingang des Hörsaals

Abstract:

Liquid-Crystalline Elastomers (LCEs) are materials which combine the entropic properties of a crosslinked polymer melt with the enthalpic properties of a liquid-crystalline state of order. LCEs show unique characteristics: visco-elasticity and order at the same time in one system. The change in shape of LCEs can easily reach 300% in the direction of the director n when aligned, and this property makes LCEs suitable materials for the application in Microsystems Technology and as artificial muscles, due to their good integration and tunable performance.

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Vorsitzender 2012/13: Ao.Univ.Prof.Dipl.-Ing. Dr. Thomas Prohaska, Analytische Chemie, Universität für Bodenkultur