

# Kolloquium



**RUHR-UNIVERSITÄT BOCHUM**

UNIVERSITÄT DORTMUND



# Mechanik

## Vortragsankündigung

**Referent:**

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**Thema:**

**STRESS FORMULATION OF ELASTICITY PROBLEMS**

**Ort:**

**Ruhr-Universität Bochum  
Raum IA 3/21**

**Zeit:**

**Montag, den 22.11.2004  
17:00 Uhr**

**Inhalt:**

The reduction of elastic constants in stress dependence of multiphase composites is presented and connection is made with the Cosserat Spectrum Theory which decouples the effect of loading, geometry and material dependence in solutions to Elasticity problems. A mathematically equivalent stress formulation of 3-D elasticity problems is presented and new conservation laws are derived that reflect the symmetries of the compatibility relations in elasticity.

**Veranstalter:**

O.T. Bruhns, K. Hackl, J.F. Kalthoff, S. Reese (Ruhr-Universität Bochum)  
H. Obrecht, B. Svendsen, K. Thermann (Universität Dortmund)

Internet: [www.rub.de/mechanik/kolloquium.html](http://www.rub.de/mechanik/kolloquium.html)