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Strukturbildung im Taylor- Couette-System mit einfachen und komplexen Flüssigkeiten

We present measurements which characterize different patterns in a system of independently rotating Taylor-Couette cylinders containing water as investigated fluid. The first characterisation compares visualisation measurements of first instabilities occurring in the system to the corresponding measurements with a PIV application. The second part shows spiral patterns consisting of four different types of spirals, each of them propagating to the centre of the system. We characterized them by their axial wave number, their axial propagation frequency and their spiral slope. In addition we give a short overview of measurements concerning small additions of high molecular weight polymers (Polyethyleneoxide) and their effect on the pattern formation of the first instabilities.

Dienstag, 12. Dezember 2006, 14 Uhr c.t.

Gebäude E2 6 (38), Seminarraum E. 04

Alle Interessenten sind herzlich eingeladen.

Die Sprecher des Graduiertenkollegs
Manfred Lücke und Ludger Santen

**Strukturbildung und Transport
in komplexen Systemen**