

## Einladung zum khdm-Kolloquium

Am Donnerstag, dem **22. Dezember 2011, ab 13.15 Uhr**, sprechen im **Seminarraum 1403** des AVZ der Universität Kassel, Heinrich-Plett-Str. 40,

Stephanie Treffert-Thomas, Universität Loughborough (UK)

und

Dr. Thomas Bartsch, Universität Loughborough (UK)

### zum Thema

„An Activity Theory Analysis of Linear Algebra Teaching within University Mathematics“

#### Zusammenfassung:

The seminar is related to the forthcoming PhD thesis of the first presenter. The focus is the teaching of mathematics, and of linear algebra in particular, at university level. Two researchers worked closely with a lecturer (a mathematician, the second presenter) who designed and delivered a course in linear algebra to first year mathematics students at a UK university. Through this research we gained insight into the lecturer's motivation, intentions and strategies in relation to his teaching.

Data collected included interviews with the lecturer, observations and audio-recordings of his lectures, and questionnaires as well as group interviews with students. Data analysis was mainly qualitative. Leontiev's development of Activity Theory (second generation) in terms of the structural elements of activity-motive, actions-goals and operations-conditions was used as a tool in data analysis, and as a theoretical lens to shed light on the teaching practice.

Findings from the study give insight into the educational practice of a mathematician in his role as a teacher of university mathematics. We present some of the outcomes of the study in terms of mathematics (i.e. linear algebra), in terms of the didactics of mathematics and in terms of the theoretical basis of Mathematics Education as a discipline.

Es wäre schön, wenn Sie an dieser Veranstaltung mit anschließender Diskussion teilnehmen könnten.

Im Namen des khdm laden ein: Prof. Dr. R. Biehler (Paderborn), Prof. Dr. R. Hochmuth (Lüneburg), Prof. Dr. H.-G. Rück (Kassel).