

Monday-seminar for the MERGA-group, doctoral students and students in MA404, February 10, 2012, 10.00-12.00 (note that the 10<sup>th</sup> of February is a Friday) in J2001

Heinz Steinbring will present

### **Mathematical Interaction – Epistemological and Communicational Constraints**

*Heinz Steinbring, Universität Duisburg-Essen, Campus Essen*

**Abstract.** Mathematical knowledge is invisible (Duval). Direct understanding in communication is not possible (Luhmann). How insightful learning can develop in »Interaction between teachers and students about mathematics«? A short interaction case dealing with »the impossible event« is used to discuss basic epistemological and communicational conditions for mutual mathematical understanding.

Marianna Bosch will present

### **Some questions on school algebra from the Anthropological Theory of the Didactic**

*Marianna Bosch, IQS School of Management, Ramon Llull University*

From its very first analyses on the didactic transposition process (Chevallard 1985) and till now, school algebra has always been at the core of the kind of problems approached by the Anthropological Theory of the Didactic. I will present some of the questions raised by this research and illustrate the specific viewpoint adopted, especially the consequences of delimiting a wider unit of analysis than the one usually assumed by researchers in mathematics education.

After that all seminar participants are invited to take part in a common discussion.