

Mathematics Colloquium at IUB

WINFRIED SICKEL

(Friedrich-Schiller-Universität Jena)

will speak

On the Regularity of Compositions of Functions

Date: Monday, April 24, 2006

Time: 17:15

Place: Lecture Hall Research II, IUB

Abstract:

We will talk about properties of the nonlinear composition (superposition) operator $T_f: g \to f \circ g$, where $g: \mathbb{R}^n \to \mathbb{R}$ is a measurable function belonging to some function space F and $f: \mathbb{R} \to \mathbb{R}$ is at least continuous. As it is clear from the very beginning, the properties of T_f will strongly depend on the domain of definition. In our talk we will concentrate on the situation where F is a Sobolev space, but some remarks will be given also to the case of smoothness of fractional order.

Colloquium Tea at ca. 16:45 in the Tea Room of Research II, close to the lecture hall. Everybody is welcome!