



**PHYSIKALISCHES
KOLLOQUIUM**
RUHR-UNIVERSITÄT BOCHUM

Montag, 11.01.2010

12 Uhr c.t.

Hörsaal HNB

Die Professoren für Physik und Astronomie
laden alle Interessenten herzlich ein.

Prof. Dr. Markus Böttcher
Universität Ohio, USA

**Time Variability in the Emission from
Active Galactic Nuclei**

Blazars are the most extreme class of active galactic nuclei, their emission being highly variable across the entire electro-magnetic spectrum, from radio waves to gamma-rays. I will start with a general overview of the current status of models explaining the broadband emission from blazars, which is believed to be produced in relativistic jets forming as a byproduct of mass accretion onto a supermassive black hole. Following this general overview, a model involving internal shocks, resulting from the collision of relativistic plasmoids propagating along the jet, will be discussed in terms of its expected spectral and variability signatures.

Einführung: Prof. Dr. R. Schlickeiser

11.45 Uhr Kaffee/Tee im Hörsaal