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UNIVERSITY

# Mathematics Colloquium at Jacobs University Bremen

JENS HORNBOSTEL

(Universität Bonn)

will speak on

*Homotopy Invariance in Geometry and Algebra*

**Date:** Monday, February 25, 2008

**Time:** 17:15

**Place:** Lecture Hall Research II, Jacobs University

**Abstract:**

The concept of homotopy and the phenomenon of homotopy invariance plays an important role not only in the study of topological or differentiable manifolds, but also in commutative algebra and algebraic geometry. In the latter, the affine line plays the role of the unit interval. We first review some classical homotopy theory and then discuss several more algebraic results following Quillen, Suslin, Morel-Voevodsky and others.

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