

Mathematics Colloquium at IUB

GÜNTHER TRAUTMANN

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will speak

*On the Babylonian Tower theorem
for projective spaces*

Date: Monday, October 30, 2006

Time: 17:15

Place: Lecture Hall Research II, IUB

Abstract:

The Babylonian Tower theorem states that an algebraic vector bundle on projective n -space \mathbb{P}_n splits into a direct sum of line bundles if it can be extended to all \mathbb{P}_m , $m > n$. The original proofs of Barth-van de Ven, Tyurin and Sato don't include precise bounds for m . A very short proof for all ranks, comprising most of those previous results and including such a bound was recently found by I. Coanda and the author, relying on ideas of G. Kempf. The communication will contain also some remarks on the same theorem for principal bundles.

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