



# Joint Mathematics Colloquium of Universität Bremen and Jacobs University Bremen

HENDRIK W. LENSTRA, JR.

(Universiteit Leiden)

will speak on

*Layered Lattices*

**Date:** Monday, April 30, 2007

**Time:** 17:15

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

**Abstract:**

Lattice basis reduction algorithms can be used for solving systems of linear equations over the ring of integers. An analysis of this application suggests that it is more appropriately handled by means of a “layered lattice”. This is a new notion of lattice, for which the length function takes values in an ordered vector space of dimension greater than one.

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