# Oberseminar

## zur
## Algebra und Algebraischen Kombinatorik

## apl.Prof. Dr. Thorsten Holm
**(Leibniz Universität Hannover)**

## "Torsion pairs in cluster tubes: classification and enumeration"

We show how torsion pairs in the cluster categories associated to tubes of finite rank can be classified combinatorially in terms of so-called Ptolemy diagrams. The latter already appeared in our earlier work on torsion pairs in cluster categories of Dynkin type A. As a consequence of our classification we establish closed formulae enumerating the torsion pairs in cluster tubes, and obtain that the torsion pairs in cluster tubes exhibit a cyclic sieving phenomenon. This is joint work with P. Jørgensen and M. Rubey.

## Termin

## Mittwoch, 18.07.2012
## ab 14:15 Uhr, Raum a410
Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

gez. Prof. Dr. C. Bessenrodt

**Institut für Algebra, Zahlentheorie
und Diskrete Mathematik**