



1 1  
1 0 2  
1 0 0 4

Leibniz  
Universität  
Hannover

# Oberseminar zur Algebra und Algebraischen Kombinatorik

**Prof. Dr. Peter Jørgensen**  
(Newcastle University, GB)

## "A Caldero–Chapoton map for infinite clusters"

Cluster algebras are commutative rings whose generators (cluster variables) are organized into overlapping sets (clusters) defined by iteration. They have connections to Calabi–Yau algebras, integrable systems, Poisson geometry, quiver representations, ...

Cluster categories are certain categories of representations of finite dimensional algebras which were introduced to categorify cluster algebras. (More general 2–Calabi–Yau categories can also be used.)

This is formalized by cluster maps which send indecomposable objects to cluster variables.

Cluster maps can be obtained using the Caldero–Chapoton map. This talk shows how it works in the case of infinite clusters.

**Mittwoch, 19.09.2012**  
**14:00 – 15:00 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