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Leibniz  
Universität  
Hannover

# Oberseminar

zur

## Algebra und Algebraischen Kombinatorik

**Prof. Dr. Susanna Fishel**  
(Arizona State University)

### "Enumerating maximum length chains in the Tamari lattice"

Fifty or so years ago Tamari defined a lattice, now known by his name. It has Catalan number of vertices--its Hasse diagram, as an undirected graph, is the one-skeleton of the associahedron-- and it is a quotient of the weak Bruhat order. Much is known about this remarkable lattice, but, as Knuth says, the number of maximal chains "remains mysterious." This is especially odd, because the numbers of maximal chains in many closely related lattices are known. I will describe recent work, joint with my student Luke Nelson, on enumerating maximum length chains. We hope it is progress toward finding the number of maximal chains.

**Montag, 08.07.2013**

**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