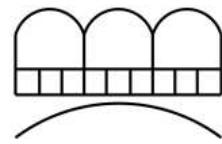# Experimentelle und konstruktive Algebra

RWTHAACHEN UNIVERSITY

Experimental and constructive algebra

Kolloquiumsvortrag

Dienstag, 20. Mai 2014, 14:15 Uhr, Hörsaal VT

LUCIA MOROTTI (LEHRSTUHL A FÜR MATHEMATIK):
On multisets of hooks lengths of partitions

A partition is not in general uniquely determined up to conjugation by its multiset of hook lengths. For example $(6, 3, 3, 2)$ and $(5, 5, 2, 1, 1)$ have the same hook lengths' multisets, as can be see from

$$
\begin{array}{cccccc}
9 & 8 & 6 & 3 & 2 & 1 \\
5 & 4 & 2 \\
4 & 3 & 1 \\
2 & 1
\end{array}
\qquad \text{and} \qquad
\begin{array}{ccccc}
9 & 6 & 4 & 3 & 2 \\
8 & 5 & 3 & 2 & 1 \\
4 & 1 \\
2 \\
1
\end{array} \;.
$$

We will prove however that a partition α is uniquely determined up to conjugation by the multisets of hook lengths of α and of $\alpha \setminus R_{1,1}^\alpha$.

Wir laden alle Interessierten herzlich ein.

Ab 13:30 Uhr gibt es Kaffee und Tee in der Bibliothek des Lehrstuhl D für Mathematik.