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Leibniz  
Universität  
Hannover

# Oberseminar zur Algebra und Algebraischen Kombinatorik

PD Dr. Ghislain Fourier  
(University of Glasgow)

## „Toric degenerations of flag varieties arising in representation theory“

I will introduce a general framework for toric degenerations of flag varieties which are motivated by structures from representation theory. For this I will introduce birational sequences and the associated essential monoids. This framework covers the toric degenerations obtain through Lusztig's PBW bases, the string polytopes due to Littelmann and Berenstein-Zelevinsky as well as recently defined degenerations in the framework of PBW degenerate modules. We will see how this new setup will eventually lead to "new" toric degenerations and how it is related to Newton-Okounkov bodies.

**Montag, 18.01.2016**  
**ab 14:15 Uhr, Raum a410**  
Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

Institut für Algebra, Zahlentheorie  
und Diskrete Mathematik