



Leibniz  
Universität  
Hannover

# Oberseminar Institut für Algebraische Geometrie

**Ludvig Modin**  
(Leibniz Universität Hannover)

## Moduli spaces for $\Theta$ -strata and non-reductive quotients

The U-hat theorem of Bérczi, Doran, Hawes and Kirwan gives conditions for when a linear action of a complex graded unipotent group admits a geometric quotient, it is one of the key results non-reductive geometric invariant theory is built on. We give a stacky re-interpretation of this theorem in terms of  $\Theta$ -strata, as introduced by Halpern-Leistner, of algebraic stacks. As a corollary we generalize the U-hat theorem to not necessarily linear actions of graded unipotent groups over a Noetherian base scheme.

**Donnerstag, 16.01.2025, 16:30 - 17:30, B302.**

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**Alle Interessierten sind herzlich eingeladen.**