

Oberseminar zur Algebra

Lehrstühle A und D für Mathematik

Vortragsankündigung

zur folgenden Vortragsreihe:

Zeit und Ort: **Freitag, 25. Juni, 11.30 Uhr bis 13.00 Uhr** in Hörsaal III
Montag, 28. Juni, 10.00 Uhr bis 11.30 Uhr in Fo7
Mittwoch, 30. Juni, 10.00 Uhr bis 11.30 Uhr in SG12

Vortragender: **Frank Grosshans**

Titel: **The invariant theory of unipotent groups**

Inhalt: The three great problems of invariant theory are:

- (1) what is the structure of the algebra of invariants, especially is it finitely generated?
- (2) how can the algebra of invariants be used to construct good orbit spaces;
- (3) how can the invariants themselves be constructed explicitly?

During the twentieth century, great progress was made in understanding these problems for reductive groups. However, our understanding for unipotent groups is not nearly as advanced. The purpose of these (three) lectures is to provide an overview of our knowledge by stating theorems and giving examples.

Wir laden alle Interessierten herzlich zu diesen Vorträgen ein.