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Leibniz
Universität
Hannover

Oberseminar zur Algebra und Algebraischen Kombinatorik

Dr. Martina Lanini
(Universita degli Studi di Roma)

„Cohomology of the flag variety under PBW degenerations“

Given a complex algebraic variety and a flat deformation of it, there is an induced homomorphism from the cohomology of the latter to the cohomology of the original variety. Such a homomorphism can in general fail to be surjective or injective. In my talk, I will discuss recent work with Elisabetta Strickland, in which we show that in the case of PBW degenerations of a (type A) flag variety, the induced homomorphism between cohomologies is surjective. PBW degenerations have been recently introduced by Cerulli Irelli, Fang, Feigin, Fourier and Reineke, and proven to have the nice property to be isomorphic to Schubert varieties.

Our result shows once more that these degenerations are extremely well behaved.

Donnerstag, 13.07.2017
ab 14:15 Uhr, Raum a410
Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

Institut für Algebra, Zahlentheorie
und Diskrete Mathematik