



WESTFÄLISCHE
WILHELMS-UNIVERSITÄT
MÜNSTER

Kolloquium des Mathematischen Instituts

Affine Deligne-Lusztig varieties

Prof. Dr. Ulrich Goertz (Universität Duisburg-Essen)

28.04.2011, 16:30 Uhr, Hörsaal M 5

Abstract:

Affine Deligne-Lusztig varieties are analogs (in the context of an affine root system) of Deligne-Lusztig varieties, which play an important role in the representation theory of finite groups of Lie type. They are subvarieties of affine Grassmannians or affine flag varieties, and studying them leads to combinatorial and geometric questions. Affine Deligne-Lusztig varieties serve to describe arithmetic properties of Shimura varieties, but they are also of purely group theoretic interest.

In this talk, I will explain the notion of affine Deligne-Lusztig variety, present it in a greater context, and report on new results (joint with X. He) about their properties.

Tee wird ab 16:00 Uhr im Sitzungszimmer SR o des Mathematischen Instituts serviert.

Fachbereich 10

Mathematik und Informatik

<http://wwwmath.uni-muenster.de>

