



Oberseminar zur Algebra und Algebraischen Kombinatorik

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"On codistances and multiple buildings"

In 1974 Tits classified the irreducible spherical buildings of rank at least 3. His result asserts that all these buildings are of algebraic origin which means that they are all related to simple algebraic groups, classical groups or some of their variations. There is no hope to extend this result to the rank 2 case. By a result of Tits and Weiss, the Moufang condition characterizes the rank 2 spherical buildings of algebraic origin.

In my talk I will recall these results. There is no hope for a classification in the non-spherical case. On the other hand, there are quite a few classes of non-spherical buildings which are of algebraic origin. I will explain how codistances and the notion of multiple buildings can be used in order to characterize non-spherical buildings of algebraic origin.

Montag, 16.06.2014
ab 16:00 Uhr, Raum a410
Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

gez. Prof. Dr. C. Bessenrodt, Prof. Dr. M. Cuntz, Prof. Dr. U. Derenthal

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