Oberseminar

zur
Algebra und Algebraischen Kombinatorik

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"Invariant noncrossing partitions and thick subcategories"

The poset of noncrossing partitions associated to a finite Coxeter group is of some importance in combinatorial mathematics and has several applications in other fields. Also of combinatorial interest are those noncrossing partitions which are invariant under conjugation by the Coxeter element. E.g. one is able to count them by a modified Catalan number.

In my talk, I shall present a correspondent of these elements in category theory (or representation theory, respectively). Namely, let T be an algebraic (standard, connected) triangulated category with finitely many indecomposable objects. Then T is classified (among other things) by a Dynkin diagram of type A,D,E and its thick subcategories are in bijective correspondence to invariant noncrossing partitions of the particular Dynkin type.

Montag, 27.06.2011
ab 14:15 Uhr, Raum a410
Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

gez. Prof. Dr. C. Bessenrodt

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