



Ankündigung Kolloquium

Priv.-Doz. Dr. Daniel Kirsten

Humboldt-Universität zu Berlin

hält am

Dienstag, dem 18. Dezember 2012, um 13.00 Uhr einen Vortrag zum Thema

Separating rank logics over different fields

Abstract: Rank Logics were introduced by Grohe et al. in 2009 as one significant step towards a logics which captures polynomial time. Rank logics are remarkably expressive, e.g., one can define reachability in undirected graphs in rank logics without involving fixed points. On the contrary, the research on limitations of rank logics turned out to be very difficult. In the talk, we show that the expressive power of first order logics with rank operators over different cyclic fields is incomparable. For this, we solve a combinatorial problem concerning the ranks of sequences of matrices which was considered as extremely difficult by several research groups.

Ort: Felix-Klein-Hörsaal im Paulinum, Augustusplatz, Leipzig

Alle Interessenten sind hierzu herzlich eingeladen.

Die Dozenten des Graduiertenkollegs
„Quantitative Logiken und Automaten“