

Technische Universität Dortmund
Fakultät für Mathematik

MATHEMATISCHES KOLLOQUIUM

Im Rahmen des Kolloquiums spricht:

Prof. Dr. H. Rauhut

Universität Bonn

über das Thema: **Sparse and Low Rank Recovery**

Abstract:

Compressive Sensing (sparse recovery) predicts that sparse vectors can be recovered from what was previously believed to be highly incomplete linear measurements. Efficient algorithms such as convex relaxations and greedy algorithms can be used to perform the reconstruction.

Remarkably, all good measurement matrices known so far in this context are based on randomness. Recently, it was observed that similar findings also hold for the recovery of low rank matrices from incomplete information, and for the matrix completion problem in particular. Again, convex relaxations and random are crucial ingredients.

The talk gives an introduction and overview on sparse and low rank recovery with emphasis on results due to the speaker.

Termin: Montag, den 07.11.2011, 17.15 Uhr
Kaffee/Tee: ab 16.45 Uhr Raum M 614
Ort: Mathematikgebäude, E 28

Zu diesem Vortrag laden die Dozenten der Mathematik ein.