

## EINLADUNG

Zeit: Donnerstag, 06. November 2008, 16:30 Uhr

Ort: AH I, Ahornstr. 55

Referent: Prof. Dr. Holger Karl  
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Titel: Mobile opportunities: From wireless cooperation to  
distributed research

### Abstract:

This talk will present two different aspects of mobile communication systems. The first addresses the exploitation of spatial diversity in a wireless system by cooperation among terminals. This technique can realize substantial gains in reliability of a wireless link; it can also, done properly, increase capacity of wireless links. In this talk we will cover the basic idea, design decisions, and evaluation by analysis, simulation, and prototypes. Secondly, issues related to searching in a P2P system consisting of mobile devices will be considered and functions such as the support of range queries in such systems will be discussed.