

# SFB 608

## Einladung zum Kolloquium

**Ort:** Universität zu Köln  
II. Physikalisches Institut  
Seminarraum 201

**Zeit:** 30.04.2008, 14:30 Uhr

**Sprecher:** A. H. MacDonald  
University of Texas at Austin, USA

**Thema:** Superfluid Density and  
Antiferromagnetic Correlations in  
Underdoped Cuprates

The critical temperature of an underdoped cuprate superconductor is limited by its phase stiffness. I will argue that a large negative correlation contribution to the stiffness of a d-wave BCS superconductor always develops as an antiferromagnetic instability is approached and discuss the relationship of this idea to the phenomenology of underdoped cuprates.

Gez. M. Vojta