



## SFB-Colloquium at ZIB

### TIME:

10 Jun 2008, 16:00 - 19:00

### LOCATION:

Konrad-Zuse-Zentrum für Informationstechnik Berlin (ZIB)  
Takustrasse 7  
14195 Berlin-Dahlem

### PROGRAM:

16:00 - 17:00 **Dr. Hans Ringström (Stockholm)**

#### **Future stability for the Einstein-non-linear scalar field system, power law expansion**

In the case of Einstein's equations coupled to a non-linear scalar field with a suitable exponential potential, there are solutions for which the expansion is accelerated and of power law type. In the talk I will discuss the future global non-linear stability of such models. The results generalize those of Mark Heinzle and Alan Rendall obtained using different methods.

17:00 - 17:30 Coffee Break

17:30 - 18:30 **Dr. Matthias Staudacher (AEI Golm)**

#### **Integrability and the AdS/CFT Correspondence**

I will review recent progress towards the exact solution of planar supersymmetric  $N=4$  gauge field theory through the discovery of integrable structures in the AdS/CFT correspondence.

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