

## Dr. Simone Montangero

(Institut für Quanteninformationsverarbeitung, Universität Ulm)

### Criticality, Entanglement and Tensor Networks

Tensor networks representations of many-body quantum systems can be described in terms of quantum channels and used to efficiently compute the critical properties at the thermodynamical limit of quantum systems.

We review the basic concepts at the heart of these methods and present the latest developments and results, focusing on the Multi-scale Entanglement Renormalization Ansatz Channel.



19. Mai 2009, 13:15 Uhr

Universität Stuttgart, NWZII, Raum 4.331  
Pfaffenwaldring 57, 70569 Stuttgart

