



Contribution ID: 173

Type: **Talk**

## Approaching conformality with the Tensor Renormalization Group method

*Wednesday, 15 July 2015 18:10 (20 minutes)*

We discuss the Tensor Renormalization Group (TRG) method for various spin and gauge lattice models in 1+1 dimensions with emphasis on near gapless/conformal situations. We present recent progress on optimized truncation methods. We describe the entanglement entropy in the superfluid phase of the  $O(2)$  model with a chemical potential.

**Primary author:** Prof. MEURICE, Yannick (University of Iowa)

**Co-authors:** Dr ZOU, Haiyuan (U. of Pittsburgh); OSBORN, James (ANL); Mr UNMUTH-YOCKEY, Judah (U. of Iowa); Dr YANG, Li-Ping (Department of Physics, Chongqing University, Chongqing 400044, China); Dr LIU, Yuzhi (U. of Colorado)

**Presenter:** Prof. MEURICE, Yannick (University of Iowa)

**Session Classification:** Theoretical Developments

**Track Classification:** Theoretical Developments