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Approaching conformality with the Tensor Renormalization Group method

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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.

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