



Physical Sciences Seminar

Continuous tensor networks and entanglement renormalization

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Host: Maksym Serbyn

Tensor networks are computational tools for quantum many-body physics inspired by our knowledge of their entanglement properties. The research program of continuous tensor networks aims to apply tensor network techniques directly in the continuum, in the setting of quantum field theory. This talk will be a (partial) overview of the field, intended for a broad, non-expert audience. We will specifically focus on the continuous multiscale entanglement renormalization ansatz (cMERA), a variational wavefunctional for quantum field theoretic ground states, which is inspired by the concept of entanglement renormalization. Time permitting we will review related constructions.

Tuesday, January 14, 2020 11:00am - 12:00pm

IST Austria Campus Heinzl Seminar Room / Office Bldg West (I21.EG.101)



This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: <https://ist.ac.at/en/campus/how-to-get-here/> The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.