



Seminar/Talk

Stability of Gapped Ground States

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Host: Laszlo Erdős

I will review several recent results about the ground state gap of quantum many-body systems and the question of spectral gap stability under perturbations. I will discuss results for the AKLT model on the hexagonal lattice, in particular the Local Quantum Topological Order (LTQO) property for it. The LTQO property will be further clarified by considering two one-dimensional models with multiple ground states: certain Haldane pseudopotentials and the Temperley-Lieb spin chains. For the first I will present a new gap stability result. The latter provide examples of an unstable ground state gap.

Tuesday, November 24, 2026 03:00pm - 04:00pm

Office Bldg West / Ground floor / Heinzel Seminar Room (I21.EG.101)



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

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<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.