



## Mathematics and CS Seminar

# Perturbative analysis of spin-waves at low temperature

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**Host: Robert Seiringer**

Spin Waves are collective excitations in the ordered phase of ferromagnetic materials. As spin waves have very low-energies, they are easily created as thermal fluctuations. In two landmark papers in 1956 Dyson pointed out that, nevertheless, the contribution of spin waves to the thermodynamic quantities is surprisingly small. I am going to present a simplified version of Dyson's argument, and show that it extends to other formulations of spin-wave theory.

Joint work with Ian Jauslin.

**Thursday, March 1, 2018 04:00pm - 06:00pm**

IST Austria Campus Big Seminar room Ground floor / 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.