Mathematics and CS Seminar

Perturbative analysis of spin-waves at low temperature

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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 thermo-dynamic 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
Big Seminar room Ground floor / Office Bldg West (I21.EG.101)

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