



Invitation to Seminar Talk

Representation theory & the Hubbard model

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Host: Robert Seiringer

In this talk we consider a generalization of the Hubbard model of interacting electrons on a graph to N different electron "flavours". We will discuss that in the strong coupling limit this model is equivalent to the antiferromagnetic Heisenberg model and the properties of the ground state of this type of model are of particular interest to us. To be able to generalise a theorem by Lieb and Mattis about the ordering of energy levels, it is necessary to inspect the representation theory of $SU(N)$. As it arises naturally in the discussion, we will also relate some facts about the representation theory of the symmetric group.

Tuesday, March 17, 2015, 3:00pm

Seminar room Mondi 2, Central Building, 1st floor



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 (note that the IST Shuttle times are highlighted in dark green):
http://ist.ac.at/fileadmin/user_upload/pdfs/IST_shuttle_bus.pdf

The IST Shuttle bus is marked IST Shuttle (#242) and has the Institute Logo printed on the side.