

## **Seminar**

### **Quantum entanglement in spin systems: Generating no local Bell pairs through dynamics**

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Quantum entanglement is recognised, in recent years, as a resource in information processing and communication protocols.

I will introduce and discuss some measures of entanglement in the context of well-known quantum spin model ground states and dynamics. Results for the dynamics of a kicked transverse field Ising model will be presented from the view point of generating multi-party entanglement structure, long-range Bell pairs.

***Friday, Dec 9<sup>th</sup> 2016***

***11:30 AM (Tea/Coffee at 11:15 AM)***

***Seminar Hall, TCIS***