

Entangled states in inhomogeneous and random quantum spin systems

Yu-Cheng Lin

Institute of Applied-Physics, National Chengchi University, Taiwan

Ground states of interacting quantum spin systems are believed to be highly entangled. In this talk I discuss in what way ground-state entanglement of quantum spin systems manifests itself in the presence of quenched randomness, and demonstrate how disorder effects modify the low-temperature behavior of the systems.