



DPTO. DE ANÁLISIS
MATEMÁTICO

Seminario Informal de Información Cuántica



Miguel Aguado

Max Planck Institute of Quantum Optics
Munich, Alemania

Many-body ansätze for topological states: MERA description of the toric code

Topological states of matter have been put forward as candidates to perform quantum computation with inherent fault-tolerance. It has been shown explicitly that the simplest topological quantum codes, including Kitaev's toric code, can be described with many-body ansätze developed at the interface of quantum information and condensed matter physics. We focus on the toric code description in terms of a multi-scale entanglement renormalisation ansatz (MERA.)

28 de noviembre de 2007, 12h30
Seminario (222), Dpto. de Análisis Matemático
Facultad de CC. Matemáticas, UCM