



DEPARTAMENTO DE
ANÁLISIS MATEMÁTICO

Workshop

Periodo de concentración:

**Quantum information and
Quantum Many Body Systems**

Programa Criptografía e Información Cuántica



Instituto de
Matemática
Interdisciplinar

TENSOR NETWORK STATES

WEDNESDAY 15

10:30 Registration and Welcome

11:00 Xiao-Gang Wen, *Tensor-entanglement renormalization group approach to strongly correlated systems.*

12:00 Sergey Bravyi, *Topological classification of translationally invariant 2D stabilizer states*

13:00 COLLOQUIUM. Ignacio Cirac, *Tensor Network States*

THURSDAY 16

10:00 Guifré Vidal, *Conformal invariance from entanglement renormalization.*

11:00 Tomotoshi Nishino, *Tensor Network State in Statistical Physics: from the Scheme of Kramers and Wannier to CTMRG on Hyperbolic Lattices.*

FRIDAY 17

11:00 Miguel Ángel Martín-Delgado, *Statistical Mechanical Models and Topological Color Codes.*

12:00 Matthias Troyer, *Non-abelian loop gases and string nets from local Hamiltonians.*

SATURDAY 18

11:00 Valentin Murg, *Recent proceedings with PEP-status*

12:00 Matthew Hastings, *TBA*



15-18 de octubre de 2008

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