

## Seminario

### Conjunto Modelamiento Estocástico / Núcleo Milenio MESCYD

#### Expositor

**David Croydon**  
(Kyoto)

#### Título:

**Random walks on fractals and critical random**

#### Resumen:

The connections between random walks and electrical networks are well-known. I will describe work in this direction that demonstrates that if a sequence of spaces equipped with "resistance metrics" and measures converges with respect to the Gromov-Hausdorff - vague topology, and a certain non-explosion condition is satisfied, then the associated stochastic processes also converge. This result generalises previous work on fractals and various models of random graphs in critical regimes. If time permits, I will also discuss associated time-changes and heat kernel estimates. This is partly joint work with Ben Hambly (Oxford) and Takashi Kumagai (Kyoto).

Martes 13 a las 15:00 hrs. Sala de Multimedia, Sexto Piso, Torre Norte, Beauchef 851.