

CRM APPLIED MATHEMATICAL PHYSICS (CAMP) SEMINARS



Rosalba García-Millán

Imperial College, London

Field theory of branching processes

Branching processes have been widely studied and applied to model phenomena such as gambling, percolation and avalanching. In my talk, I will present our field-theoretic approach to continuous-time branching processes, a method that allows us to calculate new observables such as the temporal scaling of the moments of the instant population size, the so-called avalanche shape, the n -point correlation function and the probability density function of the total avalanche size. This is joint work with Johannes Pausch, Benjamin Walter and Gunnar Pruessner (preprint arXiv:1808.08418).

Date: December 5, 2018

Place: Room C1/028

Time: 12:00

