M A T H E M A T I C S   S E M I N A R S 2016

Wednesday, 17$^{\text{th}}$ August, 14:30–15:30

Ian Melbourne

(University of Warwick)

"Martingale approximation for parametrised dynamical systems"

Abstract: In joint work with Alexey Korepanov and Zemer Kosloff, we prove statistical limit laws for sequences of the type $\sum_{j=0}^{n-1} v_n \circ T_n^j$ where T_n is a family of nonuniformly hyperbolic transformations.

The key ingredient is a new martingale-coboundary decomposition for nonuniformly hyperbolic transformations which is useful in the case when the family T_n is replaced by a fixed transformation T, but which is particularly useful in the case when T_n varies with n.

VENUE: Luigi Stasi Seminar Room
(ICTP Leonardo da Vinci Building, first floor)