



UC3M-ICMAT Seminar – 2014/2015

Applied Probability and Statistics

Invariant random fields on algebraic structures

Paolo BALDI
Roma Tor Vergata, Italy

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14h30, ICMAT, Aula Gris I

Random fields on the sphere have recently become an active research subject, as they are the natural model of an important cosmological radiation (the Cosmic Microwave Background, CMB). The word “invariant” of the title refers to the invariance of the law of the random field with respect to the action of the group of rotations. In this talk some natural questions about their mathematical structure shall be investigated: Fourier representation and its relation with the property of invariance, construction of invariant random fields, spin random fields,... Of course some of these questions can be considered also on a general homogeneous space.

Instituto de Ciencias Matemáticas
Campus de Cantoblanco UAM
C/ Nicolás Cabrera 13-15
28049 Madrid, Spain
www.icmat.es