



UC3M-ICMAT Seminar – 2014

Applied Probability and Statistics

Geometric Aspects of Free Probability Theory

Roland FRIEDRICH (HU Berlin, Germany)

Part I: Tuesday, [May 13](#), 2014

10h30, ICMAT, Aula Gris I

Part II: Wednesday, [May 14](#), 2014

10h30, ICMAT, Aula Gris I

In this talk we will develop the algebraic and geometric structures underlying Free Probability Theory and its relations with other branches of mathematics. Further we present the solution to two longstanding major problems in Free Probability, namely the generalisation of Voiculescu's S-transform to arbitrary dimensions.

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