



Theoretical Statistics and Mathematics Unit

Students Seminar

Date: September 30, 2016

Time: 11:30 AM

Venue: L-Infinity, Stat-Math Unit (5th Floor, A.N. Kolmogorov Bhavan)

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Algebraic Groups.

Abstract

People investigating algebraic groups have studied the same objects in many different guises. We will take three different viewpoints and demonstrate how they offer complementary intuitive insight into the subject. We begin with a functorial idea, discussing some familiar processes for constructing groups. These turn out to be equivalent to the ring-theoretic objects called Hopf algebras, with which we can then construct new examples. And finally, we will relate these two viewpoints to geometry by introducing group varieties.

All are cordially invited