



Theoretical Statistics and Mathematics Unit
Monday Colloquium

Date: July 11, 2016

Time: 04:15 PM

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

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Group actions and non-Kahler complex manifolds.

Abstract

We give new examples of complex manifolds that are not Kahler, and therefore can not be projective algebraic varieties. Well-known classical examples of such manifolds include the product of two odd dimensional spheres (due to Hopf and Calabi-Eckmann), compact non-Abelian Lie groups of even dimension (due to Wang and Samelson), etc. Our construction is a generalization of the Lie group case to certain principal bundles and more generally, to certain group actions. This is a joint work with Ajay Singh Thakur.

All are cordially invited