

Theoretical Statistics and Mathematics Unit

Monday Colloquium

Date: May 16, 2016

Time: 04:15 PM

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

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A study of pure subrings and factorially closed subrings of commutative rings

Abstract

In the first half of this lecture, we will talk about the notion of purity and some of its implications from algebraic and geometric viewpoints. In the second half, we will introduce the notion of factorial closedness and subsequently generalize it to the notion of quasifactorial closedness. We will show that any factorially closed (respectively quasifactorially closed) subring of a polynomial ring (respectively power series ring) in three variables is also a polynomial ring (respectively power series ring) in smaller number of variables.

All are cordially invited