

Colloquium

Date : Thursday, 11th February, 2016

Time : 3.00pm to 4.00pm

Venue : Madhava Hall (HSB 357),

Speaker : Prof. V. Raghavendra,

Formerly with Department of Mathematics & Statistics

IIT Kanpur

Title : Natural numbers using Peano's Axioms

Abstract

The following is from the book on Real Numbers by LW Cohen and G. Ehrlich: "The present course on Mathematical education in school and college introduces the various properties of integers, rational numbers and real numbers to a student as they are needed for arithmetic, algebra, geometry and calculus. When the student begins the graduate study, he finds that he is expected to be familiar with the structure of the real number system... Actually, this assumption is frequently false and a gap is left in the student's knowledge, if not filled, hinders his development". With this in mind, let us attempt to re-look at Natural numbers using Peano's Axioms. Needless to mention that there is not enough time for detailed proofs.