

**Speaker :** Prof. V. Arvind (IMSc, Chennai)

**Title:** Noncommutative arithmetic circuits: lower bounds and polynomial identity testing.

**Abstract :**

In this talk we'll discuss noncommutative arithmetic computation, including the problem of proving lower bounds for non-commutative arithmetic circuits and the problem of designing efficient polynomial identity tests. We will sketch some known results, recent progress, and highlight some open questions. The talk will be accessible to undergraduate students.