

**Speaker:** V. Arvind

**Title:** Permutation Groups and the Graph Isomorphism Problem

**Abstract:** The Graph Isomorphism problem is the algorithmic problem of checking if an input pair of graphs are isomorphic. We will discuss the role played by permutation groups in the design of efficient algorithms for Graph Isomorphism. As illustration, we shall discuss special cases, like bounded degree graphs, and bounded color class graphs, in some detail.