Representation Theory of Symmetric Groups

Dr Dusko Bogdanic
ETH Zurich

Date: 09 November 2011 (Wednesday)
Time: 2.30pm – 3.30pm
Venue: MAS Executive Classroom 2, MAS-03-07
School of Physical and Mathematical Sciences

Abstract
Representation theory is a part of mathematics that enables us to study abstract mathematical objects (such as groups, rings, Lie algebras etc.) by representing their elements as linear transformations of vector spaces. A representation makes an abstract object more concrete because matrices are more familiar objects. The aim of the talk is to present some basic ideas and open problems in representation theory of finite groups. The emphasis will be on the representations of symmetric groups. The talk will be introductory, only basic knowledge of undergraduate level algebra will be assumed.

Speaker Biography
Dr. Dusko Bogdanic studied mathematics and computer science in the University of Novi Sad and the University of Banja Luka. He obtained his Ph.D. in 2010 from the University of Oxford. He has been an assistant professor in the University of Banja Luka since 2010 and is currently a Marie Curie Postdoctoral Research Fellow at ETH in Zürich. His research interests include representation theory of finite groups and associative algebras, representation theory of symmetric groups, Hecke algebras and Schur algebras and homological algebra.

Host: Prof Zhao Liangyi, Division of Mathematical Sciences, School of Physical and Mathematical Sciences