2-Colorings in k-Regular k-Uniform Hypergraphs

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Date: 18 August 2011 (Thursday)
Time: 3.30pm – 4.30pm
Venue: MAS Executive Classroom 1, MAS-03-06
School of Physical and Mathematical Sciences

We consider 2-colorings in k-regular k-uniform hypergraphs. We relate such colorings to results in digraphs (such as even cycles in regular digraphs and disjoint cycles in digraphs). We furthermore relate these results to areas such as domination in graphs.

Speaker Biography

Dr Anders Yeo got his Ph.D. in 1998 from the Department of Computer Science and Mathematics, Odense University, Denmark. During his Ph.D, which was on semicomplete multipartite digraphs, he submitted 22 papers. He has now published a total of 117 papers in Discrete Mathematics.

He has held Post.Doc. positions at the Mathematics and Statistics Department of University of Victoria, Canada, and Computer Science Department of Aarhus University, Denmark. He then joined the Computer Science Department of Royal Holloway, University of London, in 2001 and was promoted to Reader in 2003.

Currently his main research interests are Fixed Parameter Tractability, Algorithms and Complexity and Graph Theory. In Graph Theory he has done a lot of work on total domination in graphs, transversals in hypergraphs and on paths and cycles in digraphs.

Host: Prof Wu Guohua, Division of Mathematical Sciences, School of Physical and Mathematical Sciences