

Two Talks by

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Matrices and Graphs: A Two-Way Street

Date: Tuesday, 3rd July 2012
Time: 11:00am
Place: Room 307 Math and Phys Bldg.

Integral Graphs with Special Structures

Date: Thursday, 5th July 2012
Time: 11:00am
Place: Room 307 Math and Phys Bldg.

Everyone is cordially invited to attend.

Contact Prof I. Sciriha for further details.

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UNIVERSITY OF MALTA
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Department of Mathematics

Matrices and Graphs: A Two-Way Street

by

Prof. Wasin So

The interaction between matrices and graphs is fruitful and it benefits both; hence it is a two-way street. Not only are new tools available to tackle old problems, new problems also stimulate new studies. In this talk, some interesting tales along both directions of this street will be highlighted.

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Integral Graphs with Special Structures

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The problem "Which graphs have integral spectra?" posed by Harary and Schwenk appears to be intractable. By restricting to regular graphs, the problem becomes manageable. Indeed, there are finitely many integral connected r -regular graphs. However, a complete description of them is difficult due to a lack of structures. We shall discuss several classes of integral regular graphs with special structures. The study of integral graphs is beautiful because it brings together graph theory, matrix theory, number theory, group theory, and more.

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