

# Two Talks by

Prof Dr Torsten Sander

Ostfalia University of Applied Sciences  
Germany

## Exploring the Kernels of Trees

**Date:** Monday, 22<sup>nd</sup> October 2012  
**Time:** 11:00am to 11:55am  
**Place:** Room 307 Math and Phys Bldg.

## From Sudoku to Integral Cayley Graphs

**Date:** Tuesday, 23<sup>rd</sup> October 2012  
**Time:** 12:00pm -12.55pm.  
**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  
Faculty of Science  
Department of Mathematics

## Exploring the Kernels of Trees

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*Playing around with a computer can lead to serious insights into algebraic graph theory.*

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From Sudoku to Integral Cayley Graphs  
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*We shed some light on the structure of integral Cayley graphs and show that the Sudoku graphs belong to this class. Along the way, we present an interesting connection between NEPS (a class of graph products) and a generalization of integral circulants.*

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