

# Combinatorics Seminar

Friday February 15, 2013 at 2PM

Room B1.01

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## Judicious partitions of uniform hypergraphs

Judicious partitioning problems seek to find partitions of the vertex set such that a given parameter is reasonably large for every part. Bollobás and Thomason conjectured that for a particular problem on  $r$ -uniform hypergraphs the worst case is given by the complete hypergraph on  $2r - 1$  vertices. Bollobás and Scott subsequently gave a lower bound independent of  $r$ . We prove the conjecture in the case  $r = 3$  and give improved bounds for  $r > 3$ .

**There will be refreshments for the attendees.  
Please bring your own mugs (for coffee/tea) if possible.  
Everyone is welcome.**



[warwick.ac.uk/combinatorics](http://warwick.ac.uk/combinatorics)