## Perfect packings in hypergraphs

## Richard Mycroft, University of Birmingham

Let G and H be graphs or k-graphs (k-uniform hypergraphs). Then a perfect H-packing in G is a collection of vertex-disjoint copies of H in G which together cover all vertices of G. For graphs, the minimum degree condition needed to ensure the existence of a perfect H-packing in G was considered by several authors, before finally Kühn and Osthus gave a condition for any graph H which is best-possible up to an additive constant. However, very few analogous results for k-graphs are known outside the case of a perfect matching (when H consists of a single edge). In this talk I will outline some recent developments for this problem.