

# Generalised cores

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This talk is on the combinatorics of partitions. Given a positive integer  $s$ , the set of  $s$ -cores is a highly structured subset of the set of all partitions, which is important in representation theory. I'll take two positive integers  $s, t$ , and define a set of partitions which includes both the set of  $s$ -cores and the set of  $t$ -cores, and is somehow supposed to be the appropriate analogue of the union of these two sets.

This work is somewhat unfinished, and needs a new impetus. So I'll be hoping for some good questions!