A New Family of Decomposition Numbers of the Symmetric Group
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One of the earliest results in the (still) open problem of describing the $p$-decomposition matrix of the symmetric group was given in 1976 by G.D. James via a map on the set of integer partitions which he named “regularisation”. In this talk we will generalise James’ result by giving a family of $i$-regularisations on partitions, which will give us new decomposition numbers.