

## The Mullineux maps

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The irreducible representations of the symmetric group in characteristic  $p$  are indexed by  $p$ -regular partitions. There is a bijection from  $p$ -regular partitions to  $p$ -regular partitions called the Mullineux map, which arises from tensoring irreducible representations with the signature representation. I will introduce the Mullineux map and explore some of its properties from a combinatorial viewpoint.