

# On core and bar-core partitions

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If  $s$  and  $t$  are relatively prime. J. Olsson proved in 2008 that the  $s$ -core of a  $t$ -core partition is again a  $t$ -core partition, and that the  $s$ -bar-core of a  $t$ -bar-core partition is again a  $t$ -bar-core partition. Here generalized results are proved for partitions and bar-partitions when the restriction that  $s$  and  $t$  be relatively prime is removed.

Subjects: **Combinatorics (math.CO)**; Representation Theory (math.RT)

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