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*The quasi-partition algebra*

We introduce the quasi-partition algebra  $QP_k(n)$  as a centralizer algebra of the symmetric group. We construct a basis for  $QP_k(n)$ , give a formula for its dimension in terms of the Bell numbers, and describe a set of generators. In addition, we study its representation theory, giving dimensions and indexing sets of irreducible representations. We also provide the Bratteli diagram for the tower of quasi-partition algebras (constructed by letting  $k$  range over the positive integers).

Joint work with Z. Daugherty