

# ON CERTAIN HECKE ALGEBRAS ARISING AS DEFORMATIONS OF GROUP ALGEBRAS OF COXETER GROUPS

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ABSTRACT. Operator algebras associated with discrete groups have played a significant role in the theory of operator algebras since its inception over 80 years ago, and remain a central theme of research still now. I will recall fundamental questions related to this class and present certain operator algebras which can be viewed as deformations of algebras of (right-angled) Coxeter groups: the so-called  $q$ -Hecke operator algebras.