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Markus Linckelmann*, Department of Mathematics, City, University of London, Northampton Square, London, EC1V 0HB, United Kingdom. *On Picard groups of block algebras of finite groups.*

We investigate structural and finiteness properties of the Picard group of self Morita equivalences of a block algebra of a finite group over a complete discrete valuation ring. We describe a ‘large’ subgroup of the Picard group in terms of fundamental block theoretic invariants including source algebras, fusion systems, and Dade groups. This is based on joint work with Robert Boltje and Radha Kessar. (Received January 22, 2018)