On the source-algebra equivalence class of the cyclic blocks of the finite groups of Lie type

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By the work of Linckelmann, the source-algebra equivalence class of a block of a finite group algebra with cyclic defect groups is parametrised by three invariants: its Brauer tree together with a sign function on its vertices and a certain endo-permutation module. In this talk, I will report on the determination of this endo-permutation for the cyclic blocks of the finite groups of Lie type using character theory. This is joint work with G. Hiss.