

Invariants of Specht modules

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This is joint work with H. Geranios on the the modular representation theory of symmetric groups. Let m and n be positive integers. It was conjectured by D. Hemmer that the module of S_m -invariants of a Specht module for S_{m+n} , regarded as a module for S_n , has a Specht filtration. We provide a counterexample in each characteristic.