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Young's seminormal form and simple modules for S_n in characteristic p

Steen Ryom-Hansen

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We realize the integral Specht modules for the symmetric group S_n as induced modules from the subalgebra of the group algebra generated by the Jucys-Murphy elements. We deduce from this that the simple modules for FS_n are generated by reductions modulo p of the corresponding Jucys-Murphy idempotents.

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