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Título: A.E. Zalesski. Hall-Higman type theorems and spectra of p -elements in group representations.

Resumo: The original Hall-Higman theorem gives a lower bound for the minimum polynomial degree of a p -element of a p -solvable group in its irreducible representations over a field of characteristic p . The problem is to obtain a similar result, when possible, for an arbitrary ground field without assuming the condition of p -solvability. I plan to describe the current state of the problem and a recent progress in the area.