

London Taught Course Centre

2009 Examination

Finite Simple Groups

Question

Compare and contrast the O’Nan–Scott Theorem on maximal subgroups of the alternating and/or symmetric groups, with the Aschbacher–Dynkin Theorem on maximal subgroups of (special/general) linear groups and/or classical groups.

Do you think it is possible to formulate a similar result for exceptional groups of Lie type? (Give brief reasons.)

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