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Remarks on modular representations of finite groups of Lie type in non-defining characteristic

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(Submitted on 1 Jul 2011)

Let G be a finite group of Lie type and ℓ be a prime which is not equal to the defining characteristic of G. In this note we discuss some open problems concerning the ℓ-modular irreducible representations of G. We also establish a strengthening of the results in [13] on the classification of the ℓ-modular principal series representations of G.

Comments:	11 pages; this note corresponds to my talk at the 10th RAQ conference in Nagoya (August, 2010). It will appear in the proceedings, AMS Contemporary Mathematics
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