On some classes of finite groups

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Abstract. The aim of this talk is to make a preliminary comparison of radicals with formations and Fitting classes in finite groups.

The second aim is to consider several versions of some results on radicals in ring theory and in finite group theory. During the talk a list of open problems will be provided.

References

[1] A. Ballester-Bolinches, L.M. Ezquerro, *Classes of finite groups*. Mathematics and Its Applications (Springer), 584. Springer, Dordrecht, 2006.

[2] K.Doerk, T.Hawkes, *Finite Soluble Groups*, Number 4 in De Gruyter Expositions in Mathematics. Walter de Gruyter, Berlin, New York, 1992.

[3] B.J.Gardner, *Radical theory*, Pitman Res. Notes in Math.,198, Longman Sci.& Tech. 1989.

[4] B.J.Gardner, R.Wiegandt, *Radical theory of rings*, Monographs and Textbooks in Pure and Applied Mathematics, 261. Marcel Dekker, Inc., New York, 2004.

[5] A.G.Kurosh, *Radicals in the theory of groups*, Colloq. Math. Soc. János Bolyai 6 (1971),271-292
Russian original: Sibirsk. Mat. Zh. 3 (1962) 912-931.