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Analogues of pronormality in σ -solvable finite groups

Abstract

This is a preliminary talk about topics in finite groups that I am discussing with M.D. Pérez-Ramos and Rex Dark. Skiba and others have studied a generalization of solvability that they call σ -solvability, where σ is a partition of the set of prime integers. When σ is the partition in which each set contains exactly one prime, σ -solvability is just solvability. Many properties of solvable groups and their subgroups have analogues in σ -solvable groups. In this talk, we introduce two possible generalizations of pronormality, which we call σ -pronormality and weak σ -pronormality, and describe how they interact with other subgroup properties, including σ -subnormality as defined in Skiba's work.