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Groups that have the same holomorph as a finite perfect group[☆]

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Abstract

We describe the groups that have the same holomorph as a finite perfect group. Our results are complete for centerless groups.

When the center is non-trivial, some questions remain open. The peculiarities of the general case are illustrated by a couple of examples that might be of independent interest.

Keywords: holomorph, multiple holomorph, regular subgroups, finite perfect groups, central products, automorphisms

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