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fully invariant subgroup

Canonical name	FullyInvariantSubgroup
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Entry type	Definition
Classification	msc 20D99
Related topic	CharacteristicSubgroup
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Related topic	ExampleOfFullyInvariantSubgroup
Defines	fully invariant
Defines	fully characteristic
Defines	fully characteristic subgroup

A subgroup H of a group G is *fully invariant* if $f(H) \subseteq H$ for all endomorphisms $f: G \rightarrow G$. Such a subgroup is also called *fully characteristic*.

This is a stronger condition than being a characteristic subgroup.

The derived subgroup is fully invariant.