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stable subspace

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lalberti (18937) Definition msc 00A05

invariant subspace

stable subset invariant subset

A subset S of a larger set T is said to a stable subset for a function $f: T \to T$ iff $f(S) \subset S$.

Alternative phrasings with the same meaning are:

- ullet f is an invariant subset for f
- ullet f stabilizes S
- S is stable under (the action of) f
- \bullet S is invariant under (the action of) f
- S is left stable by/under f
- \bullet S is left invariant by/under f