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topologically irreducible representations are algebraically irreducible for C^* -algebras

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Theorem - Every π is a topologically irreducible representation of a C^* -algebra if and only if π is algebraically irreducible.

Remark— It follows easily from the definition that algebraically irreducible π of any Banach $*$ -algebra are always topologically irreducible. The above theorem says that for C^* -algebras the converse is also true.