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representations of Banach *-algebras are continuous

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Theorem - Let $\pi : \mathcal{A} \longrightarrow \mathcal{B}(H)$ be a <http://planetmath.org/BanachAlgebraRepresentation> of a Banach $*$ -algebra \mathcal{A} on a Hilbert space H . Then π is <http://planetmath.org/BoundedOperator> and $\|\pi\| \leq 1$.