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von Neumann algebras of dimension greater than one contain non-trivial projections

 $Canonical\ name \qquad Von Neumann Algebras Of Dimension Greater Than One Contain Nontrivial Project Canonical name \qquad Von Neumann Algebras Of Dimension Greater Than One Contain Nontrivial Project Canonical name \qquad Von Neumann Algebras Of Dimension Greater Than One Contain Nontrivial Project Canonical name \qquad Von Neumann Algebras Of Dimension Greater Than One Contain Nontrivial Project Canonical name \qquad Von Neumann Algebras Of Dimension Greater Than One Contain Nontrivial Project Canonical name \qquad Von Neumann Algebras Of Dimension Greater Than One Contain Nontrivial Project Canonical name \qquad Von Neumann Algebras Of Dimension Greater Than One Contain Nontrivial Project Canonical name \qquad Von Neumann Algebras Of Dimension Greater Than One Contain Nontrivial Project Canonical Neumann Nontrivial Project Canonical Neumann Nontrivial Project Canonical Neumann Nontrivial Neumann Neuman$

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- Let \mathcal{M} be a von Neumann algebra of dimension greater than one acting on an Hilbert space H. Then \mathcal{M} contains a non-trivial projection, i.e. a projection that is not the http://planetmath.org/ZeroMapzero the identity operator.
- Note As in the theory of C^* -algebras, for a projection we mean an orthogonal projection.