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Title: The Kadison-Singer Problem for type II_1 factors and related questions

Abstract: NOTATION: M is a type II_1 factor and A is a MASA of M .

QUESTION: Do the pure states of A have unique extensions to pure states of M ?

PARTIAL ANSWER: Sometimes the answer is NO.

FACT: There is a unique normal conditional expectation $E : M \rightarrow A$.

QUESTION: If f_0 is a pure state of A and if $f = f_0 \circ E$, is f a pure state of M ?

PARTIAL ANSWER: Sometimes the answer is YES.

QUESTION: Does this have any relevance to the original Kadison-Singer Problem?

PARTIAL ANSWER: maybe