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Generic pure states

Using their theory of "quantum filters", Farah and Weaver showed that any sufficiently generic filter for the projections in the Calkin algebra produces a pathological pure state; it is not pure when restricted to any atomic maximal abelian self-adjoint subalgebra, and is thus a counterexample to a conjecture of Anderson. Using Ramsey-theoretic techniques, we give sufficient conditions for filters of projections to yield counterexample to Anderson's conjecture, and under large cardinal hypotheses, to be generic over the inner model $L(\mathbb{R})$.