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A noncommutative Bishop-de Leeuw theorem

Abstract

The Bishop-de Leeuw theorem asserts the equivalence of various sort of peaking phenomena for function spaces in $C(X)$. We discuss a noncommutative version of this theorem for an operator system $S$ in $B(H)$ in terms of either the representations of $C^*(S)$ or of $C^*_e(S)$. Under certain conditions on $S$, $C^*(S)$, or $C^*_e(S)$, we exhibit connections between Choquet points and noncommutative peak points.

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