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Title: Operators shrinking the Arveson spectrum

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Let σ and τ be representations of a locally compact abelian group G on complex Banach spaces X and Y , respectively. This paper is devoted to study whether every continuous linear operators $A : X \rightarrow Y$ with the property that $\text{sp}(\tau, Ax) \subset \text{sp}(\sigma, x)$ ($x \in X$) intertwines σ and τ . We are also concerned with those operators satisfying the shrinking property only approximately.

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