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Spectral Synthesis and Operator Synthesis

The study of the relation between Spectral Synthesis and Operator Synthesis was initiated by Arveson in 1974.

In this talk, we review recent results on the subject. We study the relationship between ideals of $A(G)$ and $L_\infty(G)$ -bimodules of $B(H)$, where G is a locally compact group and $H = L^2(G)$.

We discuss subspaces of $B(H)$ which are invariant under a representation of $L^1(G)$ and also under Schur multiplication.

(This is a report on joint work with M. Anoussis and I.G. Todorov.)