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Matrix coefficients of unitary representations and projections in $L^1(G)$.

For a locally compact group G, the Fourier-Stieltjes algebra of G, denoted by $B(G)$, is the set of all the matrix coefficient functions of G equipped with pointwise algebra operations. In this talk, we study subspaces of $B(G)$, called $A_\pi(G)$, generated by all the matrix coefficient functions of G associated with a fixed unitary representation π. In particular, we consider the subspaces $A_\pi(G)$ for irreducible unitary representations π. We then discuss the construction of projections in $L^1(G)$ using elements of $A_\pi(G)$ when π admits a certain admissibility condition.