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Subgroups and invariant C^* -subalgebras

ABSTRACT. Lau and Losert have shown that there is a one-to-one correspondence between compact subgroups of a locally compact group G and left translation invariant C^* -subalgebras of $C_0(G)$, the continuous functions vanishing at infinity. Their result is related to a group of results by Takesaki and Tatsuuma concerning invariant subalgebras of $A(G)$, $L^1(G)$, $VN(G)$ and $L^\infty(G)$. We discuss the dual version of the result by Lau and Losert as well as related questions for locally compact quantum groups.