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On the Continuity of the Centralizer Map of a Locally Compact Group

Let G be a locally compact group. We denote by $\mathcal{SUB}(G)$ the hyperspace of closed subgroups of G endowed with the Chabauty topology. In this article we study the continuity of the map centr: $G \to \mathcal{SUB}(G)$, $g \mapsto \mathrm{centr}(g)$, where $\mathrm{centr}(g)$ is the centralizer of g in G.