

On the continuity of the left translation

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Abstract - Let K be a hypergroup with Haar measure and $\mathcal{M}(K)$ the algebra of all bounded regular Borel measures on K . We study for which μ in $\mathcal{M}(K)$, the map $x \mapsto \delta_x * \mu$ is continuous from K to $\mathcal{M}(K)$ when $\mathcal{M}(K)$ is equipped with a certain type of locally convex topologies. Some applications are given.

Key words and phrases : hypergroup, bounded regular Borel measure, locally convex topology.

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