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Fixed points of contractive measures acting by convolution

The classical Choquet-Deny theorem tells us, for a locally compact abelian group, that the fixed points of a probability measure acting as a convolution operator are elements constant on cosets of the group generated by the support of the measure. Over the years this theorem has been extended to various classes of locally compact groups, and even studied in the context of quantum groups. We consider the case of a measure of norm 1. We explore some of the results in the context of locally compact quantum groups. This is joint work with M. Neufang (Carleton & Lille 1), A. Skalski (IMPAN), and P. Salmi (Oulu).