

Admissibility of quantum group representations and its connection with Property (T) for quantum groups

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Abstract

In 2005, P. Sołtan, while studying Bohr compactification of quantum semigroups, proposed the admissibility conjecture for quantum group representations, which essentially means the following: All finite dimensional unitary representation of a locally compact quantum group factors through a matrix quantum group. This conjecture is still unsettled, although some partial progress were made through works of Sołtan and Daws. In this talk, we will systematically study this conjecture and as a by-product of our techniques (subject to availability of time) we will extend some results about Property (T) for quantum groups, earlier obtained by Daws, Skalski and Viselter. Based on a joint work with M. Daws and P. Salmi.