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Bogdan Ion* (bion@pitt.edu), PA. *A series of unitary representations of the quantum $SU(1,1)$.*

Unlike the case of compact quantum groups, the representation theory of non-compact quantum groups is still unexplored. I will present the construction of a series of unitary representations of the simplest non-compact quantum group. The results are q -versions of corresponding constructions for the simply-connected cover of $SL(2, \mathbb{R})$ (due to Kostant). (Received June 26, 2011)