

Yvann Gaudillot-Estrada: The quantum Mackey analogy by examples

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We present two distinct deformations of a given semisimple Lie group: the contraction onto the motion group, known as the Mackey-Higson deformation, and the quantisation of the symmetric pair related to a maximal compact subgroup, due to Letzter.

For low dimensional examples, we explain how to assemble these two deformations into a continuous field of C^* -algebras defined over a square, which has vertically constant K-theory. We also show how the representation theory varies along this field in these cases.