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Stephen R Curran* (curransr@math.ucla.edu), Department of Mathematics, UCLA, Los Angeles, CA 90095. *Quantum symmetries in free probability.*

Beginning with the free de Finetti theorem of Kostler and Speicher in 2008, there have been a number of results which indicate that symmetries in free probability are described by certain universal compact quantum groups. We will survey some of these developments. (Received August 13, 2010)