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Quantum Schur dualities ABC

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Abstract. The classical Schur duality admits a q -deformation due to Jimbo, which is a duality between a quantum group and Hecke algebra of type A. A new quantum Schur duality between an i -quantum group (arising from quantum symmetric pairs) and Hecke algebra of type B was formulated by Huanchen Bao and myself. In this talk, I will explain these dualities (with geometric incarnation) and applications to super Kazhdan-Lusztig theories of type ABC.