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Radhakrishnan Balu* (radhakrishnan.balu.civ@mail.mil). *Quantum Structures from Association Schemes*. Preliminary report.

Starting from an association scheme and the corresponding Bose- Mesner algebra we construct quantum Markov chains (QMC), their entangled versions, and interacting Fock spaces (IFS). (Received August 13, 2018)