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Zajj B Daugherty* (zdaugherty@gc.cuny.edu), The City College of New York, Department of Mathematics, 160 Convent Ave, New York, NY 10031. *Two-boundary diagram algebras*. Preliminary report.

Two-boundary Temperley-Lieb algebras began in mathematical physics related to solving certain lattice models, but have since inspired the study of other two-boundary diagram algebras that arise as natural generalizations from a Schur-Weyl duality perspective. In this talk, we will explore some interesting examples of these algebras and their connections to multiplicity-free tensor products of classical Lie algebra and Quantum group modules and the combinatorics thereof. (Received January 21, 2020)