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Zhengwei Liu* (zhengweiliu@fas.harvard.edu), 17 Oxford Street, Cambridge, MA 02138. *A new program on quantum subgroups.*

The A, D, E Dynkin diagrams capture the underlining symmetry of classical Lie theory. They also appeared as the quivers of subgroups and modules of quantum $SU(2)$. We can study classical Lie theory using quantum $SU(2)$. We introduce a new program that our group at Harvard is developing: higher mathematics over quantum $SU(n)$. (Received February 13, 2018)