1138-45-257 **Zhengwei Liu\*** (`zhengweiliu@fas.harvard.edu`), 17 Oxford Street, Cambridge, MA 02138. *A new program on quantum subgroups.* Preliminary report.

The A, D, E classification of subgroups and modules of quantum SU(2) has been achieved in subfactor theory in the 1980s. It is a quantum analogue of the McKay correspondence. We can study classical Lie theory using subgroups of quantum SU(2). We introduce a new program that our group at Harvard is developing: higher mathematics over quantum SU(n). (Received February 11, 2018)