1025-46-248   **Marius Junge*** (`junge@math.uiuc.edu`), 1409 West Green Street, Urbana, IL 61801. *Inequalities for sums of independent copies of noncommutative random variables.* Preliminary report.

In this talk we will present several estimates for sums of independent (noncommutative) random variables. Many of these estimates are based on noncommutative version of classical martigale inequalities due to Doob, Burkholder and many others. In the noncommutative setting free (or conditionally free) random variables play a particular interesting role and have interesting applications in operator space theory. (Received January 23, 2007)