Huichi Huang* (hhuichi@hotmail.com), College of mathematics and statistics, Chongqing University, Chongqing, Chongqing 401331, Peoples Rep of China. Mean ergodic theorem for discrete amenable quantum groups.

We prove a mean ergodic theorem for discrete amenable groups and use it to prove a Wiener-type theorem for compact metrizable groups. (Received August 27, 2016)