1125-46-336   **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)