1109-60-43   **Wlodek Bryc*** (`brycw@math.uc.edu`). *On integration with respect to the q-Brownian motion.*

For a parameter $0 < q < 1$, we use the Jackson q-integral to define integration with respect to the so called q-Brownian motion. Our main results are the q-analogs of the L_2-isometry and of the Ito formula for polynomial integrands. We also indicate how the L_2-isometry extends the integral to more general functions. (Received January 16, 2015)