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**Hyun Jae Yoo\*** (yoojh@hknu.ac.kr), Dept. of Applied Mathematics, Hankyong National University, Anseong, Gyeonggido 456-749, South Korea. *Limit distributions of quantum walks and open quantum random walks*. Preliminary report.

We discuss the limit distributions of quantum random walks as well as open quantum random walks. Focusing on the generators of quantum walks (on lattice spaces), we can represent the moments of limit distribution by vacuum expectations of the powers of some operator. For open quantum random walks, we introduce a concept of dual processes and by which we can derive the limit distributions concretely for some models. (Received September 13, 2013)