F. Alberto Grünbaum and Takuya Machida* (machida@stat.t.u-tokyo.ac.jp). Limit distribution of a 3-period time-dependent quantum walk.

Quantum walks are quantum analogs of random walks and their long-time limit theorems have been computed since 2002. In my talk, we take care of a discrete-time quantum walk on the line. The quantum walker is operated by time-dependent operators. We present a long-time limit distribution for a 3-period time-dependent quantum walk. The limit distribution shows an interesting behavior which one never has in a time-independent quantum walk or a 2-period time-dependent quantum walk [1,2]. The result in my presentation is based on [3].