1086-81-1765   **Yusuke Ide*** (ide@kanagawa-u.ac.jp). *Time averaged distribution of discrete time quantum walks on the path.*

The discrete time quantum walk (DTQW) which is a quantum counterpart of the random walk (RW) plays important roles in various fields such as the quantum information theory. In my talk, based on [1], I focus on relationships between the time averaged limit distribution and spectrum of the time evolution operator of DTQWs on the (finite) path.

[1] Y. Ide, N. Konno, E. Segawa (2012), Time averaged distribution of a discrete-time quantum walk on the line, Quantum Information Processing 11(5), 1207-1218. (Received September 24, 2012)