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**Yusuke Ide\*** ([ide@kanagawa-u.ac.jp](mailto:ide@kanagawa-u.ac.jp)). *Fully inter-connected subgraph decomposition and continuous time quantum walks.*

In this talk, we introduce a concept of fully inter-connected subgraph decomposition of given graphs. Then we show the spectral analysis of graph Laplacian of decomposable graphs in this sense. After that we apply these results to continuous time quantum walks on specified decomposable graphs including complete graphs, star graphs, threshold graphs, etc. (Received September 15, 2013)