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Wuchen Li*, 520 Portola Plaza Math Sciences Building 6363, CA. *Optimal transport on graphs with applications.*

Optimal transport theory provides powerful tools in both mathematics and applications. In this talk, we consider similar matters on finite graphs. Various recent developments related to Fokker-Planck equations, Shannon-Boltzmann entropy, Fisher information, as well as Wasserstein metric on graphs will be presented. Some applications are presented, including evolutionary games and “geometry” of finite graphs. (Received August 24, 2017)