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Fan Chung* (fan@ucsd.edu), 1555 Coast Walk, La Jolla, CA. *A generalized Alon-Boppana bound and weak Ramanujan graphs.* Preliminary report.

We will discuss some recent developments in several directions of spectral graph theory, including spectral bounds for graphs with general degree distribution and some variations of Ramanujan graphs, satisfying vertex and edge expansion properties. (Received September 24, 2017)