1146-05-56 Matt DeVos, Jiaao Li, You Lu, Rong Luo* (rluo@mail.wvu.edu), Cun-Quan Zhang and Zhang Zhang. Every flow admissible signed graph admits a nowhere-zero 11-flow.

In 1983, Bouchet proposed a conjecture that every flow-admissible signed graph admits a nowhere-zero 6-flow. Bouchet himself proved that such signed graphs admit nowhere-zero 216-flows and Zýka further proved that such signed graphs admit nowhere-zero 30-flows. In this talk, we show that every flow-admissible signed graph admits a nowhere-zero 11-flow. (Received January 04, 2019)