## RAINBOW CLIQUE SUBDIVISIONS

## Yan Wang

Shanghai Jiao Tong University, China yan.w@sjtu.edu.cn

In this talk, we show that for any integer  $t \ge 2$ , every properly edge colored *n*-vertex graph with average degree at least  $(\log n)^{2+o(1)}$  contains a rainbow subdivision of a complete graph of size *t*. Note that this bound is within a log factor of the lower bound. This also implies a result on the rainbow Turán number of cycles.