1161-05-16 **Sergey Norin** (sergey.norin@mcgill.ca), **Luke Postle** (lpostle@uwaterloo.ca) and **Zi-Xia Song*** (zixia.song@ucf.edu), Department of Mathematics, University of Central Florida, Orlando, FL 32816. *Breaking the degeneracy barrier for coloring graphs with no K_t minor.*

In 1943, Hadwiger conjectured that every graph with no K_t minor is $(t-1)$-colorable for every $t \geq 1$. In the 1980s, Kostochka and Thomason independently proved that every graph with no K_t minor has average degree $O(t\sqrt{\log t})$ and hence is $O(t\sqrt{\log t})$-colorable. In this talk we present our recent breakthrough on making the first improvement on the order of magnitude of the Kostochka-Thomason bound: we show that every graph with no K_t minor is $O(t(\log t)^\beta)$-colorable for every $\beta > 1/4$. (Received July 20, 2020)