## 1120-05-54 **Theodore Molla** and **Michael Santana\***, University of Illinois at Urbana-Champaign, and **Elyse Yeager**, University of British Columbia. *Refining a mixed result on cycles and chorded cycles.* Preliminary report.

In 1963, Corrádi and Hajnal proved a conjecture of Erdős showing that every graph G on at least 3k vertices with  $\delta(G) \geq 2k$  contains k disjoint cycles. A chorded cycle analogue was proven by Finkel in 2008, who showed that every graph G on at least 4k vertices with  $\delta(G) \geq 3k$  contains k disjoint chorded cycles. Both results are best possible, leading Kierstead, Kostochka, and Yeager to characterize the sharpness examples to Corrádi-Hajnal, and Molla, Santana, and Yeager to characterize the sharpness examples to Finkel's result.

In 2010, Chiba, Fujita, Gao, and Li proved a mixed version of the aforementioned results. In particular, they show that for integers r and s with  $r + s \ge 1$ , every graph G on at least 3r + 4s vertices with  $\delta(G) \ge 2r + 3s$  contains r + sdisjoint cycles, s of which are chorded. In this talk we will discuss a characterization of the sharpness examples to this statement. This result will in turn provide a transition between the results of Kierstead et al. and Molla et al. (Received February 06, 2016)