Meeting: 1004, Bowling Green, Kentucky, SS 2A, Special Session on Graph Theory

1004-05-224 **Xingxing Yu*** (yu@math.gatech.edu), School of Mathematics Georgia Institute of, Technology, Atlanta, GA 30332, and **Florian Zickfeld**. *On Hajos' coloring conjecture.* Preliminary report.

One of the remaining two cases of Hajos' coloring conjecture states that every graph containing no subdivision of K_5 is 4-colorable. We combine structural and coloring arguments to reduce this case to 4-connected graphs. (If it can be reduced to 5-connected graphs, then it would be a consequence of a conjecture of Seymour.) (Received January 25, 2005)