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**Qiqin Xie, Shijie Xie, Xingxing Yu and Xiaofan Yuan\*** (xyuan@gatech.edu). *Coloring graphs containing no  $K_5$ -subdivision.*

The well known Four Color Theorem states that graphs containing no  $K_5$ -subdivision or  $K_{3,3}$ -subdivision are 4-colorable. It was conjectured by Hajós that graphs containing no  $K_5$ -subdivision are also 4-colorable. Previous results show that any possible minimum counterexample to Hajós' conjecture is 4-connected but not 5-connected. We show that any such counterexample does not admit a 4-cut with a nontrivial planar side. (Received January 17, 2019)