

1110-05-173

**Dawei He, Yan Wang and Xingxing Yu\*** (yu@math.gatech.edu), School of Mathematics,  
Georgia Institute of Technology, Atlanta, GA 30332. *Progress on the Kelmans-Seymour conjecture  
on  $K_5$ -subdivisions*. Preliminary report.

Kelmans and Seymour independently conjectured in the 1970s that every 5-connected nonplanar graph contains a subdivision of  $K_5$ . Ma and Yu proved that this conjecture holds for graphs containing  $K_4^-$ . In this talk, I will discuss recent progress we made on this conjecture. This is joint work with Dawei He and Yan Wang (Received February 19, 2015)