Jie Ma and Xingxing Yu\* (yu@math.gatech.edu), School of Mathematics, Georgia Institute of Technology, Atlanta, GA 30084. K<sub>5</sub>-subdivisions in 5-connected nonplanar graphs.

A well known theorem of Kuratowski states that a graph is planar iff it contains no subdivision of  $K_5$  or  $K_{3,3}$ . It is also known that any 3-connected nonplanar graph other than  $K_5$  contains a subdivision of  $K_{3,3}$ . Seymour and Kelmans independently conjectured that every 5-connected nonplanar graph contains a subdivision of  $K_5$ . We establish this conjecture for graphs containing  $K_4^-$ . (Received January 21, 2009)