1068-05-331 **Jie Ma**, School of Mathematics, Georgia Institute of Technology, Atlanta, GA 30332, and **Xingxing Yu***, School of Mathematics, Georgia Institute of Technology, Atlanta, GA 30332.

K_5-subdivisions in 5-connected nonplanar graphs.

Kuratowski's theorem states that a graph is planar iff it contains no subdivision of K_5 or $K_{3,3}$. Seymour and independently Kelmans conjectured in the 1970s that every 5-connected nonplanar graph contains a subdivision of K_5. We show that this is ture when the graph contains K_4^- as a subgraph. We also show that why excluding K_4^- is useful. Joint work with Jie Ma. (Received January 20, 2011)