

1109-05-124

**Yan Wang\*** (yanwang@gatech.edu), 686 Cherry Street NW, Room 117, Atlanta, GA 30332, and  
**Qiqin Xie** and **Xingxing Yu**. *Induced Forests in Bipartite Planar Graphs*.

Akiyama and Watanabe, and independently, Albertson and Haas conjectured that every simple planar bipartite graph on  $n$  vertices contains an induced forest on at least  $5n/8$ . In this paper, we apply the discharging method to bipartite planar graphs and show that every simple bipartite planar graph on  $n$  vertices contains an induced forest on at least  $\lceil(4n + 3)/7\rceil$  vertices. (Received January 27, 2015)