

The Second Response Letter for  
*Bipartite graphs whose squares are not chromatic-choosable*  
by Seog-Jin Kim and Boram Park

Dear Tommy,

We believe the list below addresses all the concerns raised in the revision.

All the best,

Seog-Jin Kim and Boram Park (corresponding author)

- The first referee asked for a change to the beginning of the proof of Lemma 2.4, which you did not implement  
 $\implies$  We fixed according to the suggestion. We are sorry that we missed to notice the places. Now, new sentence is  
“The proof of Lemma 2.4 is similar to the proof of Lemma 2.8 in [3]. We include here for the sake of completeness.”
- In the new text on page 6, line 9, change ‘necessary’ to ‘necessarily’. And you should not start a new sentence with notation: please change to ‘(The indices  $j_1, j_2, j_3 \dots$  etc.)’  
 $\implies$  We changed ‘necessary’ to ‘necessarily’. And we revised the last sentence as follows.  
“(The indices  $j_1, j_2, j_3$  are not necessarily distinct.)”
- how can it not matter whether the indices are distinct or not? Does the union of the sets in question induce  $H_3$  if and only if the indices are all the same?  
 $\implies$  The referee pointed out that for each  $j \in [3]$ , the subset  $P_j^1 \cup P_j^2 \cup P_j^3 \cup R_1 \cup R_2 \cup S$  induces a copy of  $H_3$ . But, we became to know that actually  $P_1^1 \cup P_2^2 \cup P_3^3 \cup R_1 \cup R_2 \cup S$  and  $P_1^1 \cup P_1^2 \cup P_3^3 \cup R_1 \cup R_2 \cup S$  also induce a copy of  $H_3$ , respectively. The reason is that if  $u_{a,b}$  is adjacent to a vertex in  $T_{c,d}$ , then  $u_{a,b}$  is adjacent to all of the vertices in  $T_{c,d}$  by construction. For example,  $u_{1,1}$  is adjacent to all vertices in  $T_{1,1}$ , all vertices in  $T_{2,2}$ , and all vertices in  $T_{3,3}$ .  
It seems that the notation  $J_1, j_2, j_3 \in [3]$  could make a confusion. Hence we changed “ $J_1, j_2, j_3 \in [3]$ ” into “ $1 \leq j_1, j_2, j_3 \leq 3$ ”.
- In [2] the page numbers are 184-204.  
 $\implies$  We fixed. Thank you for finding the typo.
- In [4] add space between T. and R. Also for book titles, please use capital letters, here and in [9].  
 $\implies$  We fixed according to the suggestion. Thank you for the comments.