

## THE CROSSING NUMBERS OF JOIN OF SOME GRAPHS WITH $n$ ISOLATED VERTICES

ZONGPENG DING AND YUANQIU HUANG<sup>1</sup>

*College of Mathematics and Computer Science*  
*Hunan Normal University*  
*Changsha, Hunan 410081, P.R. China*

**e-mail:** dzppxl@163.com  
hyqq@hunnu.edu.cn

### Abstract

There are only few results concerning crossing numbers of join of some graphs. In this paper, for some graphs on five vertices, we give the crossing numbers of its join with  $n$  isolated vertices.

**Keywords:** disconnected graph, crossing number, join product.

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