

Original Articles

On the Eigenvalue Two and Matching Number of a Tree

Yi-zheng Fan

Department of Mathematics, Nanjing Normal University,

收稿日期 修回日期 网络版发布日期 接受日期

摘要 In [6], Guo and Tan have shown that 2 is a Laplacian

eigenvalue of any tree with perfect matchings. For trees without

perfect matchings, we study whether 2 is one of its Laplacian

eigenvalues. If the matching number is 1 or 2 , the answer is

negative; otherwise, there exists a tree with that matching number

which has (has not) the eigenvalue 2 . In particular, we

determine all trees with matching number 3 which has the

eigenvalue 2 .

关键词 [Tree, Laplacian eigenvalues, matching number](#)

分类号

On the Eigenvalue Two and Matching Number of a Tree

Yi-zheng Fan

Abstract

Key words

DOI:

通讯作者 fanyz@mars.ahu.edu.cn

扩展功能

本文信息

▶ [Supporting info](#)

▶ [PDF\(0KB\)](#)

▶ [\[HTML全文\]\(0KB\)](#)

▶ [参考文献](#)

服务与反馈

▶ [把本文推荐给朋友](#)

▶ [加入我的书架](#)

▶ [加入引用管理器](#)

▶ [复制索引](#)

▶ [Email Alert](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

相关信息

▶ [本刊中包含“Tree, Laplacian eigenvalues, matching number”的相关文章](#)

▶ 本文作者相关文章

· [Yi-zheng Fan](#)