



Frontiers of Mathematics in China



Editorial

1277 Shmuel FRIEDLAND, Liqun QI, Yimin WEI, Qingzhi YANG Tensor and Hypergraph

Research articles

- Dongmei CHEN, Zhibing CHEN, Xiao-Dong ZHANG Spectral radius of uniform hypergraphs and degree sequences
- 1289 **Haibin CHEN, Yiju WANG**On computing minimal *H*-eigenvalue of sign-structured tensors
- 1303 Liping CHEN, Lixing HAN, Liangmin ZHOU
 Linear homotopy method for computing generalized tensor eigenpairs
- 1319 **Jun JI, Yimin WEI**Weighted Moore-Penrose inverses and fundamental theorem of even-order tensors with Einstein product
- 1339 **Jie WEN, Qin NI, Wenhuan ZHU**Rank-*r* decomposition of symmetric tensors
- 1357 Changqing XU, Yiran XU
 Tensor convolutions and Hankel tensors
- 1375 **Lu YE, Zhongming CHEN**Further results on *B*-tensors with application to location of real eigenvalues

(contents continued on inside back cover)

中国数学前沿 CN 11-5739/O1 邮发代号: 80-964 ISSN 1673-3452

1393 Xiying YUAN, Xuelian SI, Li ZHANG Ordering uniform supertrees by their spectral radii

1409 Xinzhen ZHANG, Guanglu ZHOU, Louis CACCETTA, Mohammed ALQAHTANI

Approximation algorithms for nonnegative polynomial optimization problems over unit spheres

1427 Junping LI, Lina ZHANG

 $M^{X/M/c}$ Queue with catastrophes and state-dependent control at idle time

1441 Peiyan LI, Wei GU

Estimation of 1-dimensional nonlinear stochastic differential equations based on higher-order partial differential equation numerical scheme and its application

1457 Quanwu MU

Diophantine inequality involving binary forms

1469 Hao WEN

Asymptotic estimate of a twisted Cauchy-Riemann operator with Neumann boundary condition

1483 Mixia WU, Ye TIAN, Aiyi LIU

Robust inference in linear mixed model with skew normal-symmetric error

1501 Jia ZHANG, Baijun GAO, Long MIAO

Solvability of finite groups

1515 Min ZHANG, Jinjiang LI

Distribution of cube-free numbers with form $[n^c]$

i SUBJECT INDEX TO VOLUME 12 (2017)

Editorial

1277 Shmuel FRIEDLAND, Liqun QI, Yimin WEI, Qingzhi YANG Tensor and Hypergraph

Research articles

- Dongmei CHEN, Zhibing CHEN, Xiao-Dong ZHANG Spectral radius of uniform hypergraphs and degree sequences
- 1289 **Haibin CHEN, Yiju WANG**On computing minimal *H*-eigenvalue of sign-structured tensors
- 1303 Liping CHEN, Lixing HAN, Liangmin ZHOU
 Linear homotopy method for computing generalized tensor eigenpairs
- 1319 **Jun JI, Yimin WEI**Weighted Moore-Penrose inverses and fundamental theorem of even-order tensors with Einstein product
- 1339 **Jie WEN, Qin NI, Wenhuan ZHU**Rank-*r* decomposition of symmetric tensors
- 1357 Changqing XU, Yiran XU
 Tensor convolutions and Hankel tensors
- 1375 **Lu YE, Zhongming CHEN**Further results on *B*-tensors with application to location of real eigenvalues

(contents continued on inside back cover)

中国数学前沿 CN 11-5739/O1 邮发代号: 80-964 ISSN 1673-3452