

23(7)

On the Norm of a Self-Adjoint Operator and a New Bilinear Integral Inequality

杨必成

广州广东教育学院数学系

收稿日期 2005-2-18 修回日期 2005-4-8 网络版发布日期 2007-5-21 接受日期 2005-9-28

摘要

关键词 [norm](#) [self-adjoint](#) [bilinear inequality](#) [Beta function](#)

分类号 [47A07](#)

On the Norm of a Self-Adjoint Operator and a New Bilinear Integral Inequality

Bi Cheng YANG

Department of Mathematics, Guangdong Education College, Guangzhou 510303, P. R. China

Abstract In this paper, the expression of the norm of a self-adjoint integral operator $T: L^2(0, \infty) \rightarrow L^2(0, \infty)$ is obtained. As applications, a new bilinear integral inequality with a best constant factor is established and some particular cases are considered.

Key words [norm](#) [self-adjoint](#) [bilinear inequality](#) [Beta function](#)

DOI: 10.1007/s10114-005-0895-8

通讯作者 杨必成 bcyang@pub.guangzhou.gd.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“norm”的 相关文章](#)
- ▶ 本文作者相关文章
- [杨必成](#)