![Cornell University Library]

We gratefully acknowledge supp...
the Simons Fo...
and member ins...

Search or Article-id

(Help | Advance

All papers

Mathematics > Functional Analysis

Stability of Localized Integral Operators on Weighted L^p spaces

Kyung Soo Rim, Chang Eon Shin, Qiyu Sun

(Submitted on 9 Jul 2011)

In this paper, we consider localized integral operators whose kernels have mild singularity near the diagonal and certain Holder regularity and decay off the diagonal. Our model example is the Bessel potential operator ${\mathcal J}_\gamma, \gamma>0$. We show that if such a localized integral operator has stability on a weighted function space L^p_w for some $p\in [1, \infty)$ and Muckenhoupt A_p-weight w, then it has stability on weighted function spaces $L^{p'}_{w'}$ for all $1\le p'<\infty$ and Muckenhoupt $A_{p'}$-weights w'.

Subjects:	**Functional Analysis (math.FA)**; Spectral Theory (math.SP)
MSC classes:	47G10, 45P05, 47B38, 31B10, 42C99, 44A35, 46E30
Cite as:	**arXiv:1107.1818** [math.FA]
	(or **arXiv:1107.1818v1** [math.FA] for this version)

Submission history

From: Qiyu Sun [view email]

[v1] Sat, 9 Jul 2011 21:08:46 GMT (23kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

Download:

- PDF
- PostScript
- Other formats

Current browse cont...

math.FA
< prev | next >
new | recent | 1107

Change to browse b

math
    math.SP

References & Citatio

- NASA ADS

Bookmark(what is this?)