

limits

Guenther Hoermann, Christian Spreitzer

arXiv.org > math > arXiv:1107.5967

Mathematics > Analysis of PDEs

We gratefully acknowledge supp the Simons Fo and member ins	
rticle-id	(Help Advance
	All papers 🚽
	Download: • PDF • PostScript • Other formats
	Current browse cont math.AP < prev next > new recent 1107
	Change to browse b
	References & Citatio
	Bookmark(what is this?)

Search or

 Subjects:
 Analysis of PDEs (math.AP)

 MSC classes:
 46F30, 35L45, 35D30

 Cite as:
 arXiv:1107.5967 [math.AP]

 (or arXiv:1107.5967v2 [math.AP] for this version)

recent work by C. Garetto and M. Oberguggenberger.

(Submitted on 29 Jul 2011 (v1), last revised 9 Nov 2011 (this version, v2))

Symmetric hyperbolic systems in algebras

of generalized functions and distributional

We study existence, uniqueness, and distributional aspects of generalized solutions to the Cauchy problem for first-order symmetric (or Hermitian) hyperbolic systems of partial differential equations with Colombeau generalized functions as coefficients and data. The proofs of solvability are based on refined energy estimates on lens-shaped regions with spacelike boundaries. We obtain several variants and also partial extensions of previous results and provide aspects accompanying related

Submission history

From: Guenther Hoermann [view email] [v1] Fri, 29 Jul 2011 13:38:32 GMT (23kb) [v2] Wed, 9 Nov 2011 10:22:43 GMT (22kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.