cases	doc_1	doc_2	decision	id
			DUPLICATES	312

doc_1

authors	• J. Bruna
title	L^p estimates for Riesz transforms on forms in the Poincare space H^n
publication_date	2004-11-25 00:00:00
source	SupportedSources.SEMANTIC_SCHOLAR
journal	arXiv: Analysis of PDEs
volume	
doi	
urls	• https://www.semanticscholar.org/paper/e6f1e77723da123580af3f50791715599e3908fb
id	id-7641292473930828713
abstract	Using hyperbolic form convolution with doubly isometry-invariant kernels, the explicit expression of the inverse of the de Rham laplacian acting on m-forms in the Poincar\'{e} space is found. Also, by means of some estimates for hyperbolic singular integrals, we obtain L^p-estimates for the Riesz transforms passing from the Laplacian to other covariant derivatives, in a range of p depending on m,n. Finally, using these, it is shown that the Laplacian defines topological isomorphisms in the scale of form Sobolev spaces, for m different from n/2,(n+1)/2,(n-1)/2.
versions	

doc_2

authors	• Joaquim Bruna
title	L^p estimates for Riesz transforms on forms in the Poincare space H^n
publication_date	2004-11-25 09:28:36+00:00
source	SupportedSources.ARXIV
journal	None
volume	
doi	
urls	• http://arxiv.org/pdf/math/0411569v1 • http://arxiv.org/abs/math/0411569v1 • http://arxiv.org/pdf/math/0411569v1
id	id8473789152861044096
abstract	Using hyperbolic form convolution with doubly isometry-invariant kernels, the explicit expression of the inverse of the de Rham laplacian acting on m-forms in the Poincar\'{e} space is found. Also, by means of some estimates for hyperbolic singular integrals, we obtain L^p-estimates for the Riesz transforms passing from the Laplacian to other covariant derivatives, in a range of p depending on m,n. Finally, using these, it is shown that the Laplacian defines topological isomorphisms in the scale of form Sobolev spaces, for m different from n/2,(n+1)/2,(n-1)/2.
versions	