

| cases | doc_1 | | doc_2 | | decision | id |
|-------|------------------|--|------------------|---|-------------------|------|
| | authors | <ul style="list-style-type: none">Joaquim Bruna | | | NOT DUPLICATES | 1641 |
| | title | L^p estimates for Riesz transforms on forms in the Poincare space H^n | authors | <ul style="list-style-type: none">Bruna, Joaquim | | |
| | publication_date | 2004-11-25 09:28:36+00:00 | title | L^p estimates for Riesz transforms on forms in the Poincare space H^n | | |
| | source | SupportedSources.ARXIV | publication_date | 2004-11-25 00:00:00 | | |
| | journal | None | source | SupportedSources.CORE | | |
| | volume | | journal | None | | |
| | doi | | volume | | | |
| | urls | <ul style="list-style-type: none">http://arxiv.org/pdf/math/0411569v1http://arxiv.org/abs/math/0411569v1http://arxiv.org/pdf/math/0411569v1 | doi | 10.1512/iumj.2005.54.2501 | | |
| | id | id8473789152861044096 | urls | <ul style="list-style-type: none">https://core.ac.uk/download/19577046.pdf | | |
| | 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 $n/2,(n+1)/2,(n-1)/2$. | id | id3510497583058805521 | | |
| | versions | | 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 $n/2,(n+1)/2,(n-1)/2$.Comment: To appear in Indiana Univ. Math. | | |
| | | | versions | | | |