

1067-30-269

Craig A. Nolder* (nolder@math.fsu.edu), Department of Mathematics, Florida State University, Tallahassee, FL 32306. *The Hypercomplex Beurling-Ahlfors Transform.*

We give a bound on the hypercomplex Beurling-Ahlfors transform, also called the Π -operator, as an operator on $L^p, p > 1$. This operator reduces the the usual Beurling-Ahlfors transform in the plane where calculating this norm has motivated much research. The operator is expressed as a linear combination of second order Riesz transforms. (Received August 15, 2010)