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Loredana Lanzani*, Department of Mathematical Sciences, Fayetteville, AR 72701, and **Elias M. Stein**. *Inequalities for Div-Curl*. Preliminary report.

We discuss an inequality recently proved by L. Lanzani and E. m. Stein that generalizes the classical Gagliardo-Nirenberg inequality to forms in Euclidean space. We then discuss applications of these methods to study the regularity of the solution of the d-bar equation. (Received February 01, 2006)