Zhongyi Nie and Russell M. Brown*, Department of Mathematics, University of Kentucky, Lexington, KY 40503. Estimates for a family of multi-linear forms.

We consider a family of $n$-linear forms and establish uniform estimates as $n$ increases. We apply these estimates to study a scattering map that arises in several contexts including the inverse conductivity problem and the solution of one of the Davey-Stewartson equations by the method of inverse scattering. (Received September 21, 2010)