1022-35-43   **Craig A. Nolder*** (`nolder@math.fsu.edu`), Department of Mathematics, Florida State University, Tallahassee, FL 32306. *Monogenic functions and systems of conjugate harmonic functions.* Preliminary report.

We study systems of conjugate harmonic functions which arise as the even or odd components of monogenic functions under a Dirac operator. Stein-Weiss systems are a special case.

Results are generalizations from analytic and harmonic function theory including L^p-integrability, Lipschitz continuity, nontangential limits, area integrals and H^p-spaces. (Received September 05, 2006)