## 1036-35-61Michael Kiessling\* (miki@math.rutgers.edu), 110 Frelinghuysen Rd, Piscataway, NJ 08854.<br/>Radial symmetry of solutions to systems of higher order semilinear PDE.

We prove radial symmetry and decrease of solutions to certain n-th order systems of semilinear PDE in n-dimensional Euclidean space which have applications in conformal geometry. With the help of the classical isoperimetric inequality we show that any putative nonradial symmetric solution violates a Pokhozaev type identity satisfied by all solutions which are asymptotically radial in a suitable sense. This is joint work with Sagun Chanillo. (Received January 08, 2008)