

**Meeting:** 998, Houston, Texas, SS 4A, Special Session on Nonlinear Analysis

998-35-365            **Sergio Hernandez-Linares\*** ([slinares@math.unam.mx](mailto:slinares@math.unam.mx)), Mexico. *Strongly indefinite functionals with perturbed symmetries and multiple solutions of nonsymmetric elliptic systems.*

We consider paths of strongly indefinite functionals starting with one which is even. We give conditions for the existence of an unbounded sequence of critical values of the non-symmetric functional at the end of the path in terms of the growth of the critical values of the symmetric one. We apply this to obtain a multiplicity result for an elliptic system whose symmetries are perturbed. (Received March 02, 2004)