

Meeting: 998, Houston, Texas, SS 15A, Special Session on Geometric Variational Problems

998-49-241 **Clara Garza-Hume*** (clara@mym.iimas.unam.mx), IIMAS, UNAM, Circuito Escolar, Ciudad Universitaria, 04510 Mexico D.F., Mexico, and **Pablo Padilla** (pablo@mym.iimas.unam.mx), IIMAS, UNAM, Circuito Escolar, Ciudad Universitaria, 04510 Mexico D.F., Mexico. *The double-well potential and phase transitions.*

We give an overview of some recent results concerning critical points of singularly perturbed semi-linear elliptic PDE's with a double-well potential and the connection with phase transitions and geodesics. (Received February 28, 2004)