1108-92-341 **Dhagash Mehta*** (`dmehta@nd.edu`), 152B Hurley Hall, University of Notre Dame, Notre Dame, IN 46556. *Homotopy continuation methods to explore potential energy landscapes.*

Finding the stationary points of a potential energy function, which is a multivariate nonlinear function, arising from scientific and engineering phenomena is an important problem. In this talk, I will explain how homotopy continuation methods can be of great help here with a mention of various examples. (Received January 18, 2015)