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Dhagash Mehta* (dmehta@nd.edu), 152B Hurley Hall, Dept of App and comp Math and Stat, University of Notre Dame, Notre Dame, IN 46556. *Exploring Potential Energy Landscapes of different models arising from science and technology using Computational Algebraic Geometry.*

Finding the stationary points of a potential energy function arising from scientific and engineering phenomena is an important problem. In this talk, I will explain how computational algebraic geometry methods can be of great help here with a mention of various examples. (Received September 03, 2014)