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**Baasansuren Jadamba** and **Raphael Kahler\***, Center for Applied and Comp. Math., School of Mathematical Sciences, Rochester Institute of Technology, Rochester, NY 14623, and **Akhtar A Khan**. *Continuous Methods for the Inverse Problem of Identifying a Parameter in Fourth-Order Boundary Value Problems*. Preliminary report.

This talk will focus on the feasibility of differential equations based solvers for solving the inverse problem of identifying variable parameters in fourth-order boundary value problems. We will discuss the use of differential equation solvers such as Euler Method, Trapezoidal Method, Runge-Kutta Methods and Adams-Bashforth Method. The performance and accuracy of these methods to solve the inverse problem will be discussed. (Received September 14, 2014)