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Samuel Olson* (samuel.w.olson@my.minotstateu.edu) and **Narayan Thapa** (narayan.thapa@minotstateu.edu). *Stability Analysis of Inverse Modeling Problems in Chemical Kinetics*. Preliminary report.

Studying chemical kinetics using Carbon Dioxide absorption on a Platinum surface as a template is carried out in different inverse modeling techniques. Mechanisms are studied by using a system of ordinary differential equations along with Lavoisier's law of mass conversion. In this talk, we discuss both inverse problem and the associated modeling from theoretical point of view. In addition, we discuss the stability of solution. (Received September 16, 2014)