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**Baansuren Jadamba\*** (bxjsma@rit.edu), School of Mathematical Sciences, Rochester Institute of Technology, 85 Long Memorial Drive, Rochester, NY 14623. *Stability of an equation error approach for an inverse problem.*

Equation error approach for an inverse problem arising from identification of a tumor in human body is discussed. Inverse problem is considered in an optimization framework and we use  $H_1$  regularization in the formulation. Joint work with M.S.Gockenbach, A.A.Khan, Ch.Tammer, and B.Winkler. (Received September 14, 2014)