1083-60-10          **Indranil SenGupta\*** (`indra.sengupta@gmail.com`), Department of Mathematics, North Dakota State University, Fargo, ND, and **Maria C Mariani**, **I Florescu** and **M P Beccar-Varela**. *Stochastic models applied to earthquake dat.*

In this work we study scale invariant functions and stochastic Lévy models and we apply them to Geophysical data. We show that a pattern arises from the scale invariance property and Lévy flight models that may be used to estimate parameters related to some major event - major earthquake. We relate this to some results in finance. (Received June 12, 2012)