1032-62-36 **Hung T. Nguyen*** (`hunguyen@nmsu.edu`), Department of Mathematical Sciences, New Mexi, P.O. Box 30001, Department 3MB, Las Cruces, NM 88003-8001. *On Coarse Data Modeling in Some Economic Problems.*

Coarse data are a type of imprecise or incomplete data encountered in a variety of applications, such as econometrics, mathematical finance , auction theory and bioinformatics. As in statistical research, it is precisely each new type of data which requires new statistical procedures for inference purposes. In this talk, we will touch upon the fundamental aspects of modeling the observed processes, namely how to develop probability structures to represent appropriately coarse data. We will emphasize the case where the imprecision and uncertainty in coarse data are due to randomness and fuzziness. (Received July 23, 2007)