

1000-91-6

Ambar Niel Sengupta* (sengupta@math.lsu.edu), Department of Mathematics, Louisiana State University, Baton Rouge, LA 70803. *Pricing Functionals and Pricing Measures*. Preliminary report.

We demonstrate how pricing functionals give rise to pricing measures. For the case of infinite market state space, the Gelfand spectral theory is used to obtain the pricing measure. Pricing functionals with additional market information is shown, within this model, to be given by conditional expectations. (Received February 15, 2004)