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Mrinal K Roychowdhury* (roychowdhurymk@utpa.edu), Dept of Mathematics, UTPA, 1201 West University Drive, Edinburg, TX 78539, and **Nina Snigireva**. *Quantization dimension estimate for condensation systems of infinite self-similar mappings.*

I will talk about an inhomogeneous measures μ which is generated by an infinite system of self-similar mappings with the inhomogeneous part a self-similar measure ν . We showed that for all $r \in (0, \infty)$ the lower and the upper quantization dimension of order r of the measure μ are bounded below by the quantization dimension $D_r(\nu)$ of ν and bounded above by a unique number $\kappa_r \in (0, \infty)$ where κ_r has a relationship with the temperature function of the thermodynamic formalism that arises in multifractal analysis of μ . (Received September 15, 2014)