Quantitative Research Projects By BETA SIGMA CLUB

1 Abstract and Keywords

Abstract: Comparision of the standard measure for stock market volatility, standard deviation, with an alternative measure, entropy.

Keywords:

- Shannon Entropy
- Tsallis Entropy
- Alternative stock market volatility measures
- Volatility measurement
- Econophysics

Questions:

- Do we include **time variant** volatility measures like the ARCH (Autoregressive Conditional Heteroscedastic) model in our comparison?
- 2 Physical Aspects of Entropy
- 3 Mathematical Aspects of Entropy
- 4 Financial Engineering section
- 5 VIX data section