Accepted Manuscript

Asymmetric joint multifractal analysis in Chinese stock markets

Yuwen Chen, Tingting Zheng

PII: S0378-4371(16)30857-3
DOI: http://dx.doi.org/10.1016/j.physa.2016.11.052
Reference: PHYSA 17708

To appear in: *Physica A*

Received date: 28 May 2016
Revised date: 6 October 2016

Please cite this article as: Y. Chen, T. Zheng, Asymmetric joint multifractal analysis in Chinese stock markets, *Physica A* (2016), http://dx.doi.org/10.1016/j.physa.2016.11.052

Highlights

1. The asymmetric joint multifractal analysis method based on statistic physics is proposed to explore the asymmetric correlation in non-stationary time series.

2. The asymmetric correlation between daily return and trading volume is discussed by asymmetric joint multifractal analysis method based on statistic physics.

3. The correlations are asymmetric multifractal. When the stock indexes are upward, the fluctuations of returns are always weaker than when they are downward, whether the trading volumes are more or less.