

## **Dynamical games in financial markets**

Kyungsik Kim, S.-M Yoon, J. S. Choi, C. Christopher Lee

*Department of Physics, Pukyong National University, Pusan 608-737, Korea*

Corresponding author e-mail: *kskim@pknu.ac.kr*

We study the minority game theory from tick data of the won-dollar and yen-dollar exchange rates in financial markets. The standard deviation, the correlation, the entropy, and the global efficiency for several strategies are found numerically, and our case can be mainly viewed to be approximate to the majority game. We propose that these are meant to exist more chartists rather than fundamentalists in financial markets. The result of our numerical calculation is compared with numerical findings for other game models.