概率论系列报告

报告题目(Title)：Parameter estimation for Heston models

报告人(Speaker)：Prof. Matyas Barczy

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时间(Time)： 5 月 26 日(周一)下午 3:00-4:00

地点(Venue)：北京大学理科一号楼 1493

摘要(Abstract)：First, we study asymptotic properties of maximum likelihood estimators for Heston models based on continuous time observations of the log-price process. We distinguish three cases: subcritical (also called ergodic), critical and supercritical. In the subcritical case, asymptotic normality is proved for all the parameters, while in the critical and supercritical cases, non-standard asymptotic behavior is described.

Next, we study asymptotic properties of some parameter estimators for subcritical Heston models based on discrete time observations derived from conditional least squares estimators of some modified parameters.

References:

[1] M. Barczy, G. Pap: Maximum likelihood estimation for Heston models, 2013. ArXiv 1310.4783

[2] M. Barczy, G. Pap, T. T. Szabo: Parameter estimation for subcritical Heston models based on discrete time observations, 2014. ArXiv 1403.0527

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