2025/03/07 03:48 1/1 September 25, 2015

Statistics Seminar Department of Mathematical Sciences

DATE:	Friday, September 25, 2015	
TIME:	2:30pm to 3:30pm	
LOCATION:	WH 329	
SPEAKER:	Stanislav Volgushev, Cornell University	
TITLE:	Copula based spectral analysis.	

Abstract

In this talk we discuss an alternative method for the spectral analysis of a strictly stationary time series. We define a "new" spectrum as the Fourier transform of the differences between copulas of the pairs with lag k and the independence copula. This object is called copula spectral density kernel and allows separating marginal and serial aspects of a time series. The copula spectral density kernel is substantially more informative than the "classical" spectral density obtained from the auto-covariances. In particular, it provides a complete description of the distributions of all pairs with arbitrary lag. We introduce a way to estimate of copula spectral density kernels, comment on the asymptotic properties of the proposed estimator, and discuss several possible extensions.

Itinerary			
9:00 - 11:00	Zuofeng Shang		
11:00 - 11:30	Qiqing Yu		
11:30 - 12:00	Ganggang Xu		
12:00 - 1:00	Lunch		
2:30 - 3:30	Talk		
3:30 -	Break		

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Last update: 2015/09/24 04:34