

CoE-MaSS weekly seminar series

THE DST-NRF CENTRE OF EXCELLENCE IN
MATHEMATICAL AND STATISTICAL SCIENCES (CoE-MaSS)
PRESENTS A SEMINAR BY

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“Multifractality and spatial pattern in ecology”

Friday, 07 September 2018
10h30-11h30

CoE-MaSS Seminar Room, 1st floor,
Math Sci Bldg, West Campus, Wits University.



Multifractals have been used to describe a number of ecological densities. I discuss the multifractal MFp1p2, and apply it to species-area relationships and an abundance-area relationships, mostly using data from South Africa. This raises two questions:

1. Should the traditional view of a functional SAR and related area-based properties be abandoned in favour of the SAR as a type of probability distribution?
2. Whether inference is possible based on multifractal descriptions. For example, how different do the parameters estimated using MFp1p2 have to be for one to say they are significantly different?

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