

CoE-MaSS weekly seminar series

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

Prof Cang Hui

*(Department of Mathematical Sciences,
Stellenbosch University)*

***“Zeta Diversity as a common currency for
partitioning biodiversity
and species turnover”***

Friday, 26 July 2019

10h30-11h30

CoE-MaSS Seminar Room, 1st floor, MSB, Wits.

Incidence, or compositional, matrices are generated for a broad range of research applications in biodiversity science. Zeta diversity provides a common currency and conceptual framework that links incidence-based metrics with multiple patterns of interest in ecology and biodiversity science. It quantifies the variation in species composition of multiple assemblages in space or time, to capture the contribution of the full suite of narrow, intermediate and wide-ranging species to biotic heterogeneity. In this talk, I systematically cover the full spectrum of zeta diversity analyses, from the rationale behind proposing zeta diversity to the order decline, distance decay and scaling patterns of zeta diversity, from its relationships with other biodiversity patterns to zeta diversity regression using real regional and global biodiversity data.



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