

## CoE-MaSS weekly seminar series

THE DST-NRF CENTRE OF EXCELLENCE IN MATHEMATICAL AND  
STATISTICAL SCIENCES (CoE-MaSS) WOULD LIKE TO PRESENT  
A SEMINAR BY

**Dr Partha Ghosh**

*(School of Mathematical Science, College of Science, Engineering  
& Technology, UNISA)*

*“Problems regarding the admissible Galois structure for the  
Stone-Cech reflection of locales”*

Friday, 12 August 2016  
10h30-11h30



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**Broadcast live from:**  
Videoconferencing Facility, 1st Floor  
Mathematical Sciences Building, Wits West Campus

**How to connect to this seminar remotely:**

You can connect remotely via Vidyo to this research seminar by clicking on this link:  
<http://wits-vc.tenet.ac.za/flex.html?roomdirect.html&key=y0SSOwFsvsidbzg4qFdWXvvQtyl>

and downloading the Vidyo software before the seminar.

You must please join in the virtual venue (called “CoE Seminar Room (Wits)” on Vidyo)  
strictly between **10h00-10h15**. No latecomers will be added.

**Important videoconferencing netiquette:**

Once the seminar commences, please mute your own microphone so that there is no feedback from your side into the virtual room. During the Q&A slot you can then unmute your microphone if you have a question to ask the speaker.

**Title:**

Problems regarding the admissible Galois structure for the Stone-Cech reflection of locals

**Presenter:**

Dr Partha Ghosh, School of Mathematical Sciences, College of Science, Engineering & Technology, UNISA, [Ghoshpp@unisa.ac.za](mailto:Ghoshpp@unisa.ac.za)

**Abstract:**

In the first part of the talk I shall elaborate the notion of an admissible Galois structure, provide examples of such from algebra and topology and sketch a proof of the *Fundamental Theorem of Categorical Galois Theory*. This part of the work is an reproduction of research on *Categorical Galois Theory* due to George Janelidze.

In the second part of the talk I shall discuss the problems in determining the admissible Galois structure associated with the Stone Cech reflection of locales.

**Brief Biography:** My research interest lies in *Category Theory, Rings of Continuous Functions, General Topology & Pointfree Topology*.

I am at present a *Senior Lecturer* in the School of Mathematical Sciences, Unisa at its Florida Campus.

Previously I was an *Assistant Professor (Indian Statistical Institute, 2011-2015)*.