

S E M I N A R



Dr Ana Belén Avilez
University of the Western Cape

Date:
Thursday, 2 May 2024

Time:
12h15-13h15 SAST

- Venue:**
- **NITheCS Seminar Room**
University of KwaZulu-Natal
Westville Campus
3rd Floor, H-Block,
School of Chemistry and Physics
 - **Online**

Refreshments will be served.

Enquiries:
Email Neli Mncube:
neli.mncube@nithecs.ac.za

What is Point-free Topology?

ABSTRACT:

Point-free topology is regarded as an algebraic (more specifically, lattice theoretical) counterpart of classical topology.

Locales and frames, the objects of study of point-free topology, are a generalized version of topological spaces where one focuses on their lattices of open sets, leaving aside the points. Replacing the category of topological spaces and continuous maps by the category of locales and their maps has allowed one to approach topology from a different perspective, with advantages over the classical perspective in some situations. Point-free topology is not only a mere translation of classical results to the localic context, but it also offers a new insight into the way we may conceive and work with spaces.

In this talk we will present the basics of frame and locale theory. The aim is to give a first approach to point-free topology. If time allows, we will give some interesting results and describe the Stone-Cech compactification for frames.

Dr Ana Belén Avilez is a postdoctoral fellow at the University of the Western Cape.

WHO SHOULD ATTEND?

This colloquium talk is intended to be accessible to postgraduate students.

All are welcome!

REGISTER: <https://bit.ly/4d7tWUJ>

