



MINI-SCHOOL

NITheCS

National Institute for
Theoretical and Computational Sciences

2-Dimensional Categories: Survival Guide

Dr Elena Caviglia (Stellenbosch University)

Attend four online lectures:

Wednesday 3, 10 & 17 September & Tuesday 23 September 2025
14h00-15h00 SAST

ABSTRACT

This Mini-school is meant as an introduction to the diverse and rather complex world of 2-dimensional categories. We will explore how basic concepts and ideas of category theory are upgraded to dimension two in the two different contexts of 2-categories and double categories. We will see the similarities and differences of these two approaches and learn how to choose the best one for each application. This course aims at providing tools to understand and use two-categorical techniques in the research areas of the participants.

BIOGRAPHY

Elena Caviglia is a postdoctoral researcher in the category theory group at Stellenbosch University. She completed her PhD degree in mathematics at the University of Leicester, UK, in 2024. Her research focuses on category theory and its applications to other research areas, especially algebra, geometry and topology.

Read further details on <https://elenacaviglia.github.io/>



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