



Mathematisches  
Forschungsinstitut  
Oberwolfach



# Oberwolfach Seminar

## Tensor Triangular Geometry and Interactions

Organizers: Natàlia Castellana, Bellaterra  
Henning Krause, Bielefeld  
Greg Stevenson, Aarhus  
Date (ID): 19 – 24 October 2025 (2543a)  
Deadline: 15 July 2025

How can we study algebraic geometry, modular representation theory, and stable homotopy theory at the same time? One answer is given by tensor triangular geometry, which is a young and vibrant area based on viewing symmetric monoidal triangulated categories as geometric objects. The aim of the seminar is to give a comprehensive introduction to the fundamentals of the subject and an overview of recent developments in algebra and topology. There will be a particular focus on triangulated categories associated to finite group actions, for instance equivariant spectra and categories arising from representation theory.

The target audience is PhD students and postdocs with a background in homological algebra and/or homotopy theory (e.g. some exposure to derived or triangulated categories) who are keen to learn tensor triangular geometry and be brought up to date with some current research in the subject.

[www.mfo.de/occasion/2543a](http://www.mfo.de/occasion/2543a)

The seminar takes place at the Mathematisches Forschungsinstitut Oberwolfach. The Institute covers board and lodging. By the support of the Carl Friedrich von Siemens Foundation travel expenses can be reimbursed up to 150 EUR in average per person (against copies of travel receipts). The number of participants is restricted to 24.

**Applications including title, ID and date** of the intended seminar, together with **one pdf-file attached** containing

- full name and university/institute address, incl. e-mail address
- short CV and publication list
- present position, university
- name of supervisor of Ph.D. thesis
- a short summary of previous work and interest

should be **sent by e-mail** via [seminars@mfo.de](mailto:seminars@mfo.de) until 15 July 2025 to:

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