



Mathematisches  
Forschungsinstitut  
Oberwolfach

Member of



# Oberwolfach Seminar

## Long-Time Behavior in Fluids

Organizers: Peter Constantin, Princeton  
Theodore D. Drivas, Stony Brook  
Tarek M. Elgindi, Durham, N.C.  
Mihaela Ignatova, Philadelphia

Date (ID): 19 – 24 May 2024 (2421b)  
Deadline: 1 March 2024

The seminar will tie together two active research directions: complex fluids and long time behavior of Euler, Navier-Stokes and related equations. The seminar will focus on new trends in the investigation of long time behavior, mixing, emergence of coherent structures, topological change and singularity formation in fluids. There will be three pedagogical mini-courses aimed at exposing students to the themes of long time behavior and inviscid limit, of complex fluids and of singularity formation. Problem sessions will accompany these courses, during which specific open problems will be stated and discussed. Specific lectures will describe methods of nonlinear and nonlocal analysis with emphasis on broad applicability.

Please see the detailed program on the website of the seminar:

[www.mfo.de/occasion/2421b](http://www.mfo.de/occasion/2421b)

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 25.

**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 1 March 2024 to:

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