Mathematisches
Forschungsinstitut
Oberwolfach

Member of Leibniz Association

Oberwolfach Seminar

Free Boundary Problems in Fluid Dynamics

Organizers: Thomas Alazard, Gif-sur-Yvette
Mihaela Ifrim, Madison
Daniel Tataru, Berkeley
Date (ID): 23 – 29 October 2022 (2243a)
Deadline: 31 July 2022

Free boundary problems arise in the study of the motion of a fluid (gas) whenever the boundary of the fluid is allowed to move unconstrained, e.g. the water in the ocean or a gaseous star. How do free boundaries affect the equations and the dynamics of the fluid flow ?

The week-long seminar will be devoted to such questions. The target audience is PhD students and post-doctoral researchers wishing to be quickly immersed in a modern, very active research area. Priority will be given to young, motivated researchers.

Please see the detailed program and a recommended reading list at **www.mfo.de/occasion/2243a.**

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 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** until 31 July 2022 to:

Prof. Dr. Matthias Hieber
Mathematisches Forschungsinstitut Oberwolfach
Schwarzwaldstr. 9 – 11
77709 Oberwolfach
Germany