



Postdoctoral Position in the Analysis of PDE

A postdoctoral research position is available starting in Spring or Fall 2023 in the group of Professor [Klaus Widmayer](#) at the [Institute of Mathematics at the University of Zurich](#), Switzerland. The position is situated in the context of a Swiss National Science Foundation grant on “Stable Structures in Fluid Flow and Kinetic Theory”.

Proposed topics relate to the *analysis of partial differential equations in fluid dynamics and kinetic theory*. More precisely, the goal of the research program is to advance the quantitative understanding of asymptotic dynamics in the context of the Euler and Vlasov-Poisson equations. Relevant tools for this include PDE techniques to capture dispersive and mixing effects, harmonic analysis and aspects of dynamical systems. Prospective candidates are also encouraged to browse publications of Klaus Widmayer (e.g. on [arXiv](#)) to sample some of the relevant ideas and techniques.

Applications are welcome and should be sent by email, following the below guidelines. They will be reviewed starting in January 2023, until the position is filled.

- Duration is of up to three years (upon mutual agreement).
- Salary is competitive and the funding includes some support for conference travel and collaboration visits.
- Teaching obligations are limited (equivalent of two hours TA per week and exam corrections).

How to apply:

Please send to klaus.widmayer@math.uzh.ch using the subject line

[Postdoc Application] your name, affiliation

the following documents, compiled in a single pdf file:

- A cover letter of ca. 2 pages including the following points:
 1. A brief description the topic of your PhD thesis and its results.
 2. A list of previous Postdoc positions (if applicable) and results obtained.
 3. A brief description of your research expertise, how it relates to the theme proposed above, and why you think the position would be a good fit for you.
 4. A short discussion of your expectations from the position and future career plans.
- Your curriculum vitae and list of publications. Please include links to your publications (e.g. on arXiv) rather than sending the actual publications.
- A research statement of ca. 4 pages describing in more detail your past research results, as well as your future research plans, in particular in relation to the topics proposed here.
- Contact information for 3 references that have already agreed to provide letters of recommendation for you. Please do not send (or have others send) recommendation letters at this stage.

Receipt of an application will be acknowledged, and interviews conducted with selected candidates in Spring 2023. Informal inquiries may also be sent to the above email address.