

Hausdorff School
“PDEs in Fluid Mechanics”

February 7 to 11, 2022

organized by
Diego Alonso-Orán, Juan J. L. Velázquez

All times are local to Bonn and all talks take place at the Lipschitz-Saal (Room 1.016), Endenicher Allee 60, Bonn.

• Monday, February 7

08:30 - 09:00	Registration - 3G Covid status check
09:00 - 10:30	Maria Colombo-Lecture 1 [Online]
10:30 - 11:00	<i>Break</i>
11:00 - 12:00	Claudia Garcia (Universidad de Barcelona) <i>Time periodic solutions for the 3D quasi-geostrophic system</i>
12:00 - 13:30	<i>Lunch in Mensa</i>
13:30 - 15:00	Ángel Castro-Lecture 1
15:00 - 15:30	<i>Coffee Break in Mensa</i>

• Tuesday, February 8

08:45 - 09:00	3G Covid status check
09:00 - 10:30	Maria Colombo-Lecture 2 [Online]
10:30 - 11:00	<i>Break</i>
11:00 - 12:30	David Lannes-Lecture 1
12:30 - 14:00	<i>Lunch in Mensa</i>
14:00 - 15:00	Rafael Granero-Belinchón (Universidad de Cantabria) [Online] <i>On viscous surface waves</i>
15:00 - 15:30	<i>Coffee Break in Mensa</i>
15:30 - 17:00	Ángel Castro-Lecture 2

- **Wednesday, February 9**

08:45 - 09:00	3G Covid status check
09:00 - 10:30	Maria Colombo-Lecture 3
10:30 - 11:00	<i>Break</i>
11:00 - 12:00	Edoardo Bocchi (Universidad de Sevilla) <i>Rigorous thin film approximations of the one-phase unstable Muskat problem</i>
<i>afterwards</i>	<i>Lunch in Mensa and free afternoon</i>

- **Thursday, February 10**

08:45 - 09:00	3G Covid status check
09:00 - 10:30	Ángel Castro-Lecture 3
10:30 - 11:00	<i>Break</i>
11:00 - 12:00	Gabriele Brüll (Lund University) <i>Waves of greatest height</i>
12:00 - 13:30	<i>Lunch in Mensa</i>
14:00 - 15:00	David Lannes-Lecture 2
15:00 - 15:30	<i>Coffee Break in Mensa</i>
15:30 - 17:00	Discussion
19:00	<i>Dinner of the conference</i> [Confirm assistance]

- **Friday, February 11**

08:45 - 09:00	3G Covid status check
09:00 - 10:30	David Lannes-Lecture 3
10:30 - 11:00	<i>Break</i>
11:00 - 12:00	Christina Lienstromberg (Bonn University) <i>Analysis of non-Newtonian Taylor–Couette flows</i>

- **The main lectures**

Maria Colombo	<i>Nonuniqueness results from 2D Euler equations to 3D Navier-Stokes equations</i> [Online]
Ángel Castro	<i>Traveling waves close to the Couette flow</i>
David Lannes	<i>Wave-structure interactions</i>