

Summer School: Fluid Dynamics Schedule

All talks are held at the Brin Center on the 4th floor of the CSIC Building.

Monday, July 17

8:30 – 9:00	BREAKFAST	
9:00 - 10:00	Peter Constantin	Nonlocality in Fluids: Electrostatic and Polymeric Forces-1
10:00 –10:15	COFFEE BREAK	
10:15 –10:45	Dave Levermore	Special Talk: History of the Equations of Fluid Dynamics
10:45 – 11:00	COFFEE BREAK	
11:00 –12:00	Huy Nguyen	Interface Dynamics: the Muskat Problem-1
12:00 – 2:00	LUNCH	
2:00 - 3:00	Toan Nguyen	Instabilities in Boundary Layers-1
3:00 – 3:15	COFFEE BREAK	
3:15 – 3:45	Kyle Liss	Junior Talk: Enhanced Diffusion for Alternating Shear Flows
3:45 – 4:00	COFFEE BREAK	
4:00 - 5:00	Tarek Elgindi	On the Long-Time Behavior of 2D Euler Flows-1

Tuesday, July 18

8:30 - 9:00	BREAKFAST	
9:00 - 10:00	Toan Nguyen	Instabilities in Boundary Layers-2
10:00 –10:15	COFFEE BREAK	
10:15 – 10:45	Noah Stevenson	Junior Talk: Well-Posedness of the Traveling Wave Problem for the Free Boundary Incompressible Navier-Stokes Equations
10:45 – 11:00	COFFEE BREAK	·
11:00 – 12:00	Tarek Elgindi	On the Long-Time Behavior of 2D Euler Flows-2
12:00 – 2:00	LUNCH	
2:00 - 3:00	Peter Constantin	Nonlocality in Fluids: Electrostatic and Polymeric Forces-2
3:00 – 3:15	COFFEE BREAK	
3:15 – 3:45	Elizabeth Carlson	Junior Talk: Continuous Data Assimilation: Insights & Connections to Understanding Turbulent Flows
3:45 – 4:00	COFFEE BREAK	<u> </u>
4:00 - 5:00	Huy Nguyen	Interface Dynamics: the Muskat Problem-2



Wednesday, July 19

8:30 - 9:00	BREAKFAST	
9:00 - 10:00	Tarek Elgindi	On the Long-Time Behavior of 2D Euler Flows-3
10:00 - 10:15	COFFEE BREAK	
10:15 – 10:45	Chi-Hao Wu	Junior Talk: Positive Lyapunov Exponent in Plasmas: Noncollisional and Collisional Mechanisms
10:45 – 11:00	COFFEE BREAK	
11:00 – 12:00	Peter Constantin	Nonlocality in Fluids: Electrostatic and Polymeric Forces-3
12:00 – 2:00	LUNCH	
2:00 – 2:30	Karim Shikh Khalil	Junior Talk: Strong III-Posedness in L∞ for the Riesz Transform Problem
2:30 – 3:00	Min Jun Jo	Junior Talk: Velocity Blow-Up of the Planar Euler Flows in Some Critical Spaces
3:00 - 3:30	Anastassiya Semonova	Junior Talk: Instability of Stokes Waves
3:30 - 4:00	Coffee Break	
4:00 – 4:30	Trinh Nguyen	Junior Talk: Asymptotics of Helmholtz-Kirchhoff Point- Vortices in the Phase Space
4:30 – 5:00	Patrick Phelps	Junior Talk: Asymptotic Properties and Separation Rates for Navier-Stokes Flows
5:00 – 5:30	Quyuan Lin	Junior Talk: Stable Singularity Formation of the Inviscid Primitive Equations
7:00 – 9:00	DINNER AT FOGO DE CHAC	NORTH BETHESDA

Thursday, July 20

8:30 – 9:00	BREAKFAST	
9:00 - 10:00	Peter Constantin	Nonlocality in Fluids: Electrostatic and Polymeric Forces-4
10:00 –10:15	COFFEE BREAK	
10:15 – 10:45	Qirui Peng	Junior Talk: Non-Unique Stationary Solution of Forced SQG
10:45 – 11:00	COFFEE BREAK	
11:00 – 12:00	Tarek Elgindi	On the Long-Time Behavior of 2D Euler Flows4
12:00 – 2:00	LUNCH	
2:00 - 3:00	Francisco Gancedo	Interface Dynamics: the Muskat Problem3
3:00 – 3:15	COFFEE BREAK	
3:15-3:45	Mustafa Aydin	Junior Talk: On Asymptotic Properties of the Boussinesq Equations
3:45 - 4:00	COFFEE BREAK	•
4:00 - 5:00	Toan Nguyen	Instabilities in Boundary Layers-3



Friday, July 21

8:30 - 9:00	BREAKFAST	
9:00 - 10:00	Francisco Gancedo	Interface Dynamics: the Muskat Problem-4
10:00 – 10:15	COFFEE BREAK	
10:15 – 10:45	Marc Nualart Batalla	Junior Talk: Linear Inviscid Damping in the 2D Euler- Boussinesg System in the Periodic Channel
10:45 – 11:00	COFFEE BREAK	
11:00 – 12:00	Toan Nguyen	Instabilities in Boundary Layers-4
12.00 - 2.00	LUNCH/ CONCLUSION	