

Mathematics of General Relativity and Fluids Summer School 2024: Schedule

All lectures and tutorials before lunch will take place in the auditorium "Georgios Lianis"

July 22-26	Monday 22	Tuesday 23	Wednesday 24	Thursday 25	Friday 26
9:15-9:30	Registration				
9:30-10:30	Welcome on behalf of SLMath: Toti Daskalopoulos Lecture: Mihalis Dafermos Introduction Chapter 1 of ETH lecture notes	Lecture: Juhi Jang Compressible Euler flows	Tutorial: Serban Cicortas	Tutorial: Matthew Shrecker Hyperbolic conservation laws II	Tutorial: Matthew Shrecker Newtonian gravitational Collapse I
10:30-10:40	Break	Break	Break	Break	Break
10:40-11:40	Tutorial: Ryan Unger	Lecture: Mihalis Dafermos Black holes II	Tutorial: Serban Cicortas	Lecture: Juhi Jang Vacuum Free boundary problems I	Lecture: Igor Rodnianski Fluids I
11:40-12:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
12:00-13:00	Lecture: Mihalis Dafermos Black holes I	Tutorial: Ryan Unger	Tutorial: Matthew Schrecker Hyperbolic conservation laws I	Lecture: Juhi Jang Vacuum Free boundary problems II	Lecture: Igor Rodnianski Fluids II
13:00-14:30	Lunch break	Lunch break	Lunch break	Lunch break	Lunch break
14:30-16:30	Problem Session Ryan Unger	Problem Session Ryan Unger	Problem Session Jiaqi Liu	Problem Session Ely Sandine	
July 29-Aug 2	Monday 29	Tuesday 30	Wednesday 31	Thursday 1	Friday 2
9:30-10:30	Tutorial Warren Li and Serban Cicortas	Lecture: Demetrios Christodoulou	Tutorial Georgios Moschidis	Lecture: Demetrios Christodoulou	Lecture: Demetrios Christodoulou
10:30-10:40	Break	Break	Break	Break	Break
10:40-11:40	Tutorial Warren Li and Serban Cicortas	Tutorial Rita Teixeira da Costa	Tutorial Georgios Moschidis	Tutorial: Rita Teixeira da Costa	Lecture: Juhi Jang Naked singularities Einstein-Euler
11:40-12:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
12:00-13:00	Tutorial: Matthew Schrecker Newtonian gravitational Collapse II	Lecture: Mihalis Dafermos T-boundedness and Morawetz	Lecture: Igor Rodnianski Naked singularities in vacuum I	Lecture: Igor Rodnianski Naked singularities in vacuum II	Lecture: Mihalis Dafermos Redshift effect, Aretakis instability, event horizon jumping
13:00-14:30	Lunch break	Lunch break	Lunch break	Lunch break	Lunch break
14:30-16:30	Problem Session Serban Cicortas	Problem Session Warren Li	Problem Session Rita Teixeira da Costa	Problem Session Georgios Moschidis	
	Mihalis ETH notes: https://www.dpms.cam.ac.uk/~md384/ETH-Nachdiplom-temp.pdf				