

Time	Monday, July 15	Tuesday, July 16	Wednesday, July 17	Thursday, July 18	Friday, July 19	Saturday, July 20	Sunday, July 21
9:30-10:15	<b>9:15 arrival</b> , 9:30-10:00: Welcome, introduction to the school concept, logistics, people (Sera, Nicole, Daniela etc),	Inventory of Compact Objects (Enrico)	How an accretion disk forms, OoM (Andrew)	Jet power and acceleration (Sasha)	Orbits + Hill/tidal/Lagrange L1 (Smarar)		Social outing: ESTEC + Space Expo + maybe beach
10:15-11:00	Start 10:00: Introduction to OoM (Sera )	Estimating key timescales in astrophysical scenarios (Nicole)	Associated work problem: set up and solve steady state black body circular disk (Andrew).	Jet power and acceleration (Oliver)	Orbits + Hill/tidal/Lagrange L1 (Smarar)	<b>Start at 10:00:</b> Diversity session III w/ Sherard & Stephanie, with some kind of coffee break if we can book one!	
11:00-11:30	Coffee Break						
11:30-12:15	Energy Scales and Compact Objects (Enrico)	Short primer on fluid dynamics (Smarar)	Associated work problem: set up and solve steady state black body circular disk.	Diversity session II w/ Sherard & Stephanie	Associated work problem from Smadar's lectures		
12:15-13:00	Conservation Laws Using Stars (Andrew)	Interactive/problem solving for Fluid dynamics (Smarar/Sebastian)	OoM shocks and particle acceleration (Irene)		Classical accretion solutions: Bondi and Bondi-Hoyle-Lyttleton (Oliver)		
13:00-14:45	Lunch					(catered lunch @ Polder?)	
14:45-16:45	Introduction to Data Visualization (Daniela)	Radiative Processes I: Bremsstrahlung & Synchrotron (Sera)	Radiative processes: IC Lecture + MC problem (Sebastian)	Compiling, running HARMPI, and visualizing the results (Sasha)	Low angular momentum accretion (adapted to use HARMPI, Oliver/Sasha), maybe working in some of the relativistic Bondi accretion in Schwarzschild ideas?	Continue low angular momentum HARMPI problem, setup some problems (pre-cooked to some extent, tailored to different levels?) to run over weekend?	
16:45-17:15	Coffee break						
17:15-18:45	17:15-18:30: Networking, upmentoring, and building your support systems, Community Building (coordinated by Daniela and Nicole L.R.)	Diversity session I w/ Sherard & Stephanie	Version control w/GIT (Daniela)	Setting up new problems in HARMPI (Sasha)	High Energy Neutrino Astronomy (Irene)		
evening program?	<b>18:30 onwards:</b> Welcome reception with food, maybe some additional icebreakers	Open discussion w/pizza? touching on both networking and VC workshops?		How to write effective research proposal and paper (Coordinated by Daniela, Irene, Nicole L.R.)		Social Dinner	

Time	Monday July 22	Tuesday July 23	Wednesday July 24	Thursday July 25	Friday July 26
9:30-10:15	Introduction to Bayesian Statistics (Daniela)	OoM estimating plasma parameters (Nicole)	Intro to Machine Learning (Camille)	Derive M-sigma (Andrew) OoM	OoM: BNS mergers and/or blast waves (Enrico)
10:15-11:00		MHD turbulence, viscosity, vorticity (Blakesley)			
11:00-11:30					
11:30-12:15	Nonlinear ODEs: wind equation (Chiara)	MHD turbulence, viscosity, vorticity (Blakesley)	Machine Learning extension	Finish HARMPI low-luminosity & RT (Jason/Jane)	Unstructured time to finish projects?
12:15-13:00				Intro to Einstein toolkit and quick showcase (Sasha)	
13:00-14:45					
14:45-16:45	Tutorial/work example (Chiara) on using Multinest, maybe also working in relativistic Bondi accretion ideas from Oliver (though he won't be here)	<b>14:45-16:15</b> Dr Nicole <b>16:15-16:30</b> short coffee break with snacks	Disk-jet connection: Jane and Sasha	Intro to MWL SED fitting and (precooked) Isis tutorial (Sera)	Discussion, reflection, feedback, how to move forward and community build?
16:45-17:15		<b>16:30-19:30</b> Workshop: How to give a good talk (Karin Herrebout & Mariël Vaartjes, 2 groups)			
17:15-18:45	Analyze/plot/visualize results of weekend HARMPI projects (Jason)		General Relativistic Ray-tracing / Solving PDEs with Runge-Kutta method (Jane)	<b>17:15-18:00</b> : Finish MWL modeling (Sera). <b>18:00-18:45</b> Finish HARMPI study of Low luminosity accretion, radiation processes (Jason/Jane)	Closing borrel
evening program?	Dra Nicole workshop I, with some kind of food!		18:45-19:15: Start HARMPI study of Low luminosity accretion, radiation processes (Jason/Jane)		