

| 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 | 9:15 arrival , 9:30-10:00: Welcome, introduction to the school concept, logistics, people (Sera, Nicole, Daniela etc), | Pt II: Associated Gaia H-R diagram problem (Daniela and Enrico) | How an accretion disk forms, OoM (Andrew) | Jet power and acceleration (Sasha) | Orbits + Hill/tidal/Lagrange L1 (Smarar) | | |
| 10:15-11:00 | Start 10:00: Introduction to OoM in general, segue into "cast of characters" (Sera + Enrico) | 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) | Start at 10:00: Diversity session III w/ Sherard & Stephanie, with some kind of coffee break if we can book one! | Maybe an organized social/outing for half the day? |
| 11:00-11:30 | Coffee Break | | | | | | |
| 11:30-12:15 | Inventory of 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) | Diversity session II w/ Sherard & Stephanie | 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 TBD) | 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? | 18:30 onwards: Welcome reception with food, maybe some additional icebreakers | Open discussion w/pizza? touching on both networking and VC workshops? | | How 2 write effective research proposal and paper (Irene=coordinator) | | 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) | 14:45-16:15 Dr Nicole 16:15-16:30 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 build a community? |
| 16:45-17:15 | | 16:30-19:30 Wkshp: How to give a good talk (Karin Herrebout & partner, 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) | 17:15-18:00 : Finish MWL modeling (Sera). 18:00-18:45 Finish HARMPI study of Low luminosity accretion, radiation processes (Jason/Jane) | Closing borrel |
| evening program? | Dra Nicole wkshp I, with some kind of food! | | 18:45-19:15: Start HARMPI study of Low luminosity accretion, radiation processes (Jason/Jane) | | |