

Arepo ISM Workshop - Schedule

	Monday 11/09/2023	Tuesday 12/09/2023	Wednesday 13/09/2023	Thursday 14/09/2023	Friday 15/09/2023
09:00	Greetings	Ana Duarte Cabral: FFOGG	Felix Priestley: Post-processing the time-dependent chemical evolution of molecular clouds	Hands-on	
09:30	Group and personal introduction	Paul Clark: Exploiting TreeCol and the tree for your science	Stefan Reiß: POLARIS		
10:00		Jonathan Petersson: Supermassive Black Hole Accretion Within the Bondi Radius	Free collaboration time		
10:30	Coffee	Coffee	Coffee	Coffee	Coffee
11:00	Rüdiger Pakmor: Arepo: Current state and future plans	Junia Göller: A star is born: What ECOGAL Star Particles can do for you	Future developments and how to organize them	Hands-on	
11:30		Robin Tress: Supernova feedback			
12:00	David Whitworth: MHD - The different schemes, what works and how to set them up	Free collaboration time	Discussion		
12:30	Lunch	Lunch	Lunch	Lunch	
13:00					
13:30	Glen Hunter: Guiding the flow with AGAMA: an external potential library	Simon Glover: Modelling chemistry in the ISM: what I wish I'd known when I started	Clare Dobbs: Modelling the ISM on kpc scales with sphNG and including Arepo in AMUSE	Hands-on	
14:00	Philipp Girichidis: Cosmic ray hydrodynamics				
14:30	Rowan Smith and N. Sansith Hewapathirana: Jets in Arepo	Discussion	Toni Peter: Sweep		
15:00	Coffee	Coffee	Coffee	Coffee	
15:30	Coding Standards	Discussion	Hands-on Preparation		
16:00			Zoe Faes and Jiten Dhandha: Fiesta	Hands-on	
16:30	Discussion	Perry Hatchfield: Monte Carlo tracer particles	Mordecai Mac Low: VorAMR		
Evening			Conference dinner		

Social get-together
Food
Invited talks
General talks
Technical talks
Discussion sessions
Hands on session
<i>Possible topics:</i>
VorAMR (Sean Lewis), memory handling, addition of io-fields, coding guidelines, walking the nearest neighbours of cells with Delauney triangulation, POLARIS (Stefan Reiß), getting started with Arepo and HPC (Noe Brucy), AGAMA (Glen Hunter), Setting up star particles in a galactic environment (Junia Göller), Generating initial conditions for the ISM and galaxies (Philipp Girichidis), Follow-along example on how to use the generic communication pattern (Robin Tress)