

[Monday \(18.09.2023\)](#)

9:30 - 10:00 Coffee

10:00-10:30 Welcome from LC and the organizers, goals of the workshop

Charles Gammie

10:30-11:30 Plenary talk on theme 1: observational constraints and theoretical challenges, definition of state of the art modeling (40+20)

Georges Wong

11:30-12:00 Contributing talks on theme 1: More observations to set stage + start of MHD topic (2 talks, 7+7 each)

- **Henric Krawczynski** (Results from X-ray Polarization Observations of Stellar Mass Black Holes with the Imaging X-ray Polarimetry Explorer)

- **Raquel Fraga-Encinas** (The Core-shift of Sagittarius A* as a Discriminant between Disk and Jet Emission Models with mm-VLBI)

12:00-14:00 Lunch

14:00-15:00 Contributing talks, theme 1: MHD simulations (4 talks, 7+5 each)

- **Wanga Mulaudzi** (Investigating jet power origins using multi-wavelength observations together with the Event Horizon Telescope)

- **Angelo Ricarte** (Observing Plasma and Space-time Properties with the Event Horizon Telescope and Beyond)

- **Michi Baubock** (Pattern Speeds in EHT Movies)

- **Daniel Palumbo** (The Role of Accretion in Polarimetric Probes of the Black Hole Spacetime)

15:00-15:30 Coffee

15:30-17:00 Contributing talks theme 1: MHD simulations (6 talks, 7+5 each)

- **Jesse Vos** (Plasmoid identification in 2D Harris sheet and GRMHD simulations)

- **Oliver Porth** (Polarisation signatures of flares at mm-wavelengths in MAD accretion disks)

- **Gibwa Musoke** (Angular momentum transport in GRMHD simulations of truncated accretion disks)

- **Christian Fromm** (Probing radiation microphysics in M87)

- **Goni Halevi** (Magnetic field evolution in post-merger accretion disks)

- **Philip Moesta** (GRMHD modeling of plasmas around BH/NS with GPUs: challenges and opportunities)

17:00-18:30 Wine and cheers reception party in the Lorentz Center

[Tuesday \(19.09.2023\)](#)

9:00 - 10:00 Plenary talk on theme 2: Kinetics of black hole magnetosphere (40+20)

Benjamin Crinquand

10:00-10:30 Coffee

10:30-11:50 Contributing talks on theme 2 (6 talks, 7+5 each)

- **Camila Demidem** (Relativistic Collisionless Shocks in Inhomogeneous Magnetized Plasmas)

- **Greg Werner** (Energization of relativistic electrons and ions in magnetic reconnection in 2D and 3D)

- **Fabio Bacchini** (Kinetic physics of black-hole plasma accretion from the disk to the corona)

- **Yohei Kawazura** (Ion and electron heating in magnetorotational turbulence)

- **Muni Zhou** (Electron heating in kinetic-Alfven-wave turbulence)

- **Valentina Richard-Romei** (Enhanced particle acceleration in a pulsar wind interacting with a companion)

11:50-12:00 Discussion and setup of splinter groups

12:00-14:00 Lunch

14:00-15:00 Splinter sessions

15:00-15:30 Coffee

15:30-17:00 Splinter sessions continuation

17:00-17:30 Splinter sessions reports

17:30 Free time

[Wednesday \(20.09.2023\)](#)

9:00 - 10:00 Plenary talk on theme 3: Radiation, electron heating, particles acceleration, flares (40+20)

Lorenzo Sironi

10:00-10:30 Coffee

10:30-11:50 Contributing talks on theme 3 (6 talks, 7+5 each)

- **Jim Stone** (New models of radiation-dominated accretion)

- **Frédéric Vincent** (Semi-analytical modeling of GRAVITY Sgr A* flare data with magnetic reconnection)

- **Aris Yfantis** (SgrA* spot modeling in millimeter band)

- **Alejandra Jimenes-Rosalez** (Scaling invariance of magnetized accretion onto black holes)

- **Nicolas Scepi** (Non-thermal particle acceleration in GRMHD simulations and the X-ray flares of Sgr A*)
- **Libby Tolman** (Electric field screening by pair discharges in pulsar polar caps)

11:50-12:00 Discussion and setup of splinter groups

12:00-14:00 Lunch

14:00-15:00 Splinter sessions

15:00-15:30 Coffee

15:30-17:00 Splinter session continuation

17:00-17:30 Splinter session reports

18:00 Conference dinner on the beach

[Thursday \(21.09.2023\)](#)

9:00 - 10:00 Plenary talk on theme 4: hybrid simulations (40+20)

Kyle Parfrey

10:00-10:30 Coffee

10:30-11:30 Contributing talks on theme 4 (5 talks, 7+5 each)

- **Elias Most** (Modeling dynamo and kinetic physics in GRMHD simulations)

- **Serguei Komissarov** (Numerical FFDE vs RMHD in simulations of relativistic plasmas)

- **Anna Chashkina** (Energy dissipation in astrophysical jets)

- **Joanna Kramer** (Polarization in magnetized relativistic jets: A hybrid approach)

- **Adrien Soudais** (Hybrid numerical simulations of pulsar

magnetospheres)

11:30-12:00 Discussion and setup of splinter groups

12:00-14:00 Lunch

14:00-15:00 Splinter sessions

15:00-15:30 Coffee

15:30-17:00 Splinter session continuation

17:00-17:30 Splinter session report

17:30 Free time

[Friday \(22.09.2023\)](#)

9:00 - 10:00 Summary talk

SOC

10:00-10:30 Coffee

10:30-11:30 General discussion/paper organization/brainstorming

Everyone

11:30-12:00 Workshop summary

12:00-14:00 Lunch

14:00 End of workshop, free time