Numerical studies of relativistic jets from black holes

Relativistic jets are powerful collimated outflows from accreting compact objects, especially spinning black holes. Jets, as well as their associated mechanisms of energy dissipation and particle acceleration, can be investigated by global or local numerical simulations using methods like general-relativistic magneto-hydrodynamics (GRMHD), particle-in-cell (PIC), etc. This presentation highlights selected results from 3 projects related to relativistic jets.

Primary author: NALEWAJKO, Krzysztof (Nicolaus Copernicus Astronomical Center, PAS, Warsaw, Poland)

Presenter: NALEWAJKO, Krzysztof (Nicolaus Copernicus Astronomical Center, PAS, Warsaw, Poland)

Session Classification: :CFT Special seminar

Track Classification: Relativistic jets