GR-I-RMHD: a versatile numerical algorithm for modeling dissipative flows in high energy astrophysics

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Abstract:

GR-I-RMHD (-General Relativistic Implicit Radiative Magneto Hydro Dynamical) is a parallel numerical solver for highly/weakly compressible Navier-Stokes equations.
In this talk, I will introduce GR-I-RMHD and address its regime of application.