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General Relativistic Radiation Hydrodynamics and Black Hole Accretion

Thursday, 9 June 2022 09:00 (30 minutes)

I will review methods for solving time-dependent radiation transfer in general relativistic spacetimes and described a new method for treating radiation transfer in a five or six dimensional finite volume approach. I will also describe our efforts to apply direct transfer solutions to simulations of black hole accretion and the driving of accretion disk winds via radiation pressure.

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