

Astrophysics Seminar Monday, March 21, 2016

3:15 pm Refreshments CAS Room 500

3:30 pm Seminar CAS Room 502

Next Week

- Josep Miquel Girart ICE, Spain
- TBD

Numerical Simulations of Black Hole Accretion

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Abstract:

Accreting black holes are observed in a large variety of systems in astronomy: active galactic nuclei, X-ray binaries, tidal disruption events, gamma-ray bursts. While analytical one-dimensional models are very useful, some aspects of accretion physics such as the formation of jets and winds are beyond the scope of such models. Numerical general relativistic MHD simulations are able to include more physics than analytical models and are proving increasingly useful for studying the multidimensional gas dynamics and radiative properties of accretion flows. The talk will review some current progress.



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