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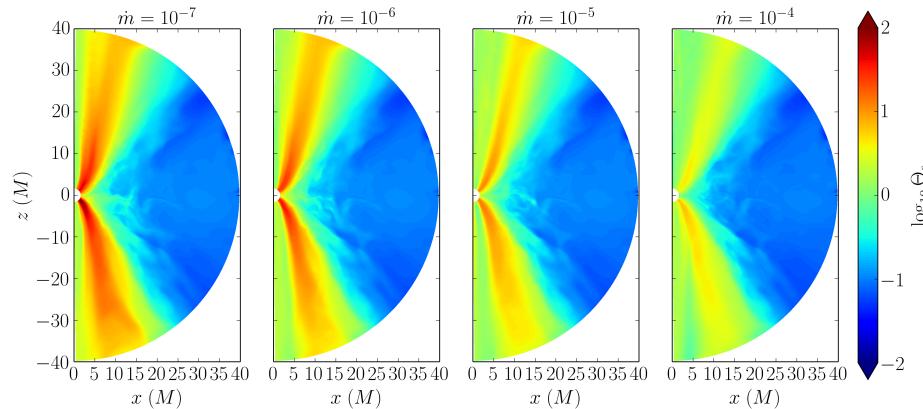
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Ab Initio Models of Accreting Black Holes with Monte Carlo-based Relativistic Radiation Magnetohydrodynamics

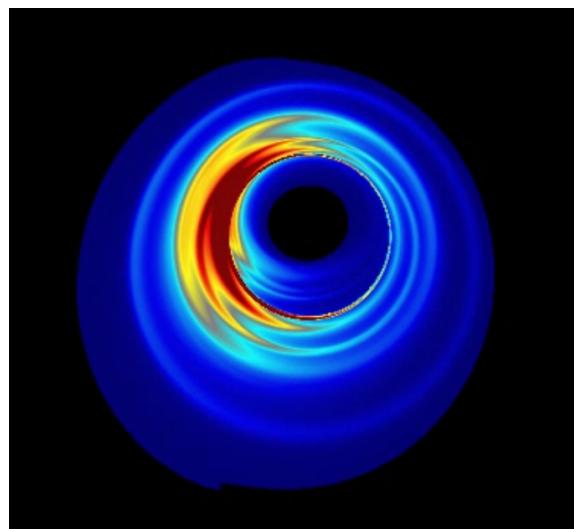
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We have carried out a large number of relativistic radiation MHD simulations of black hole accretion.

The simulations have been crucial in highlighting the structure of these disk/jet systems.



Our simulations produce simulated observations that can be compared with data. Future comparisons will constrain parameters for particular systems like M87, and perhaps the large population of slowly accreting black holes in the Universe.

