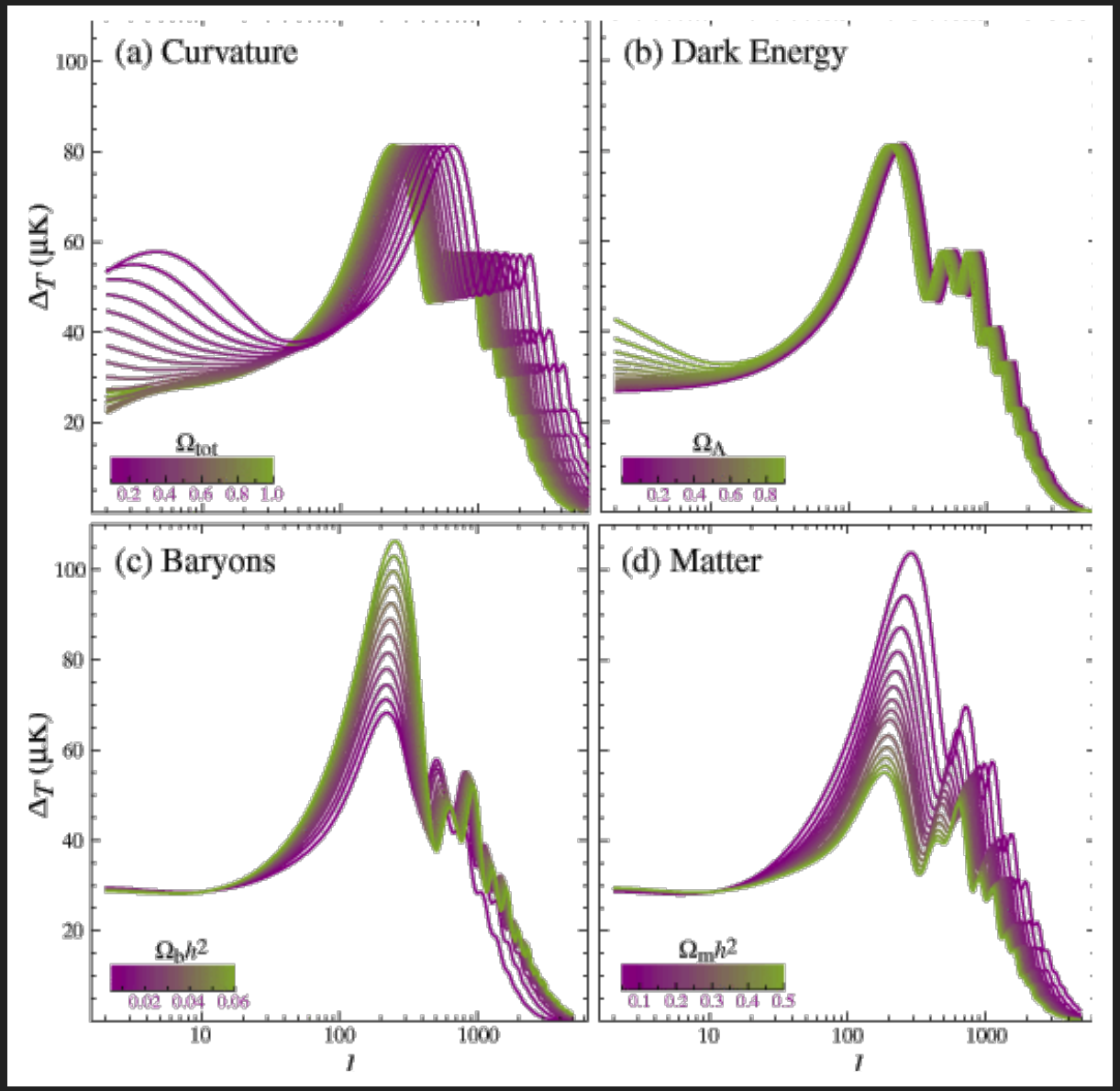

(a) Curvature
(b) Dark Energy
(c) Baryons
(d) Matter
Δ_T (μK)
l
Ω_{tot}
0.2 0.4 0.6 0.8 1.0
Ω_Λ
0.2 0.4 0.6 0.8
$\Omega_b h^2$
0.02 0.04 0.06
$\Omega_m h^2$
0.1 0.2 0.3 0.4 0.5
20
40
60
80
100
10
100
1000

(CMB) Hu+

current comparison procedure

Input:
- spin
- B field config
- disk tilt*

Output:
- fluid(x,y,z) ρ, u, p, v_x, B_x

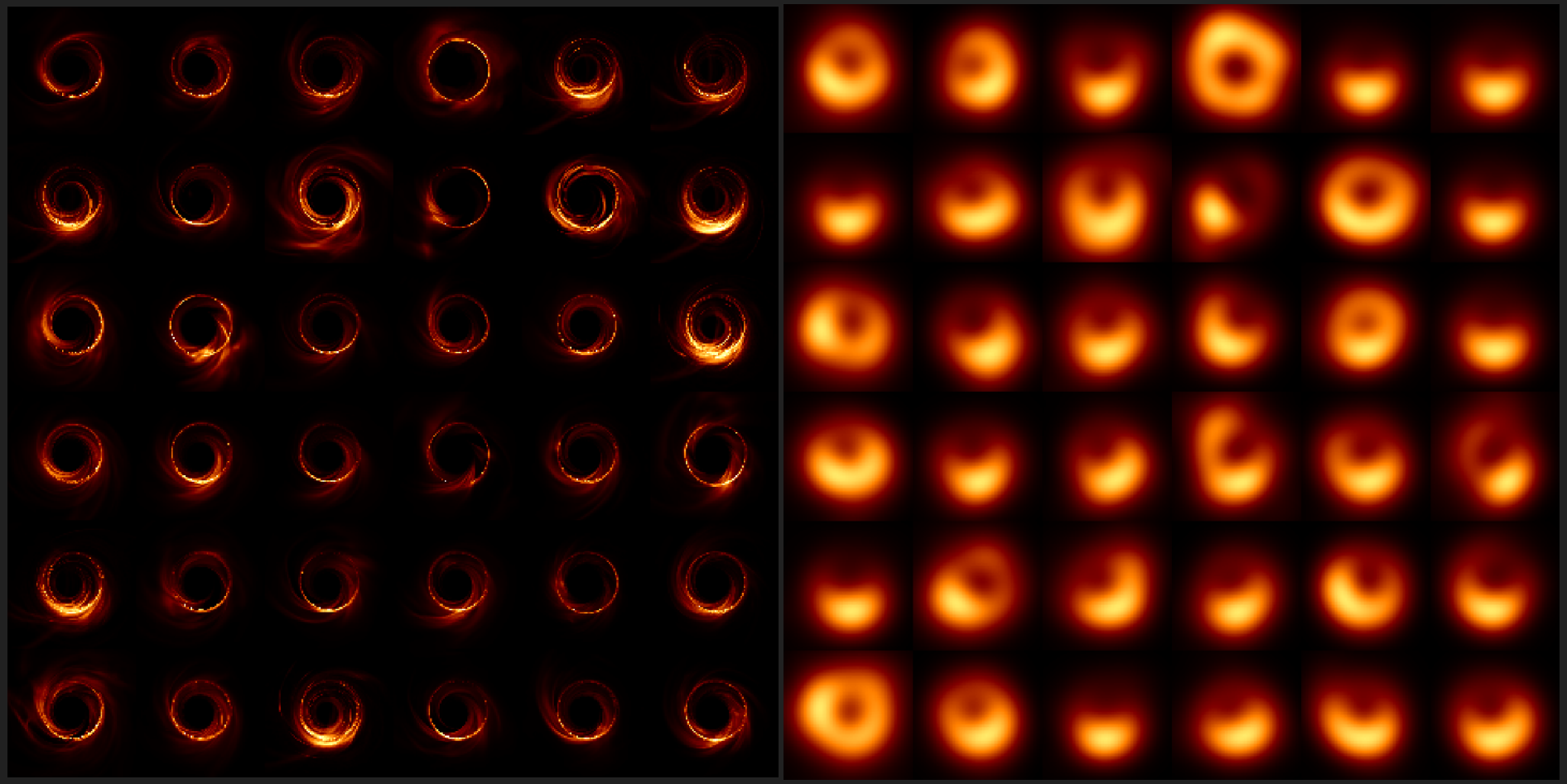
Input:
- GRMHD
- electrons
  - heating
  - distribution function*
- inclination
- units
  - BH mass
  - BH accretion rate

Output:
- image(x,y)

Statistics of image ensembles.

Uncertainties:
- plasma physics
- e^- distribution function

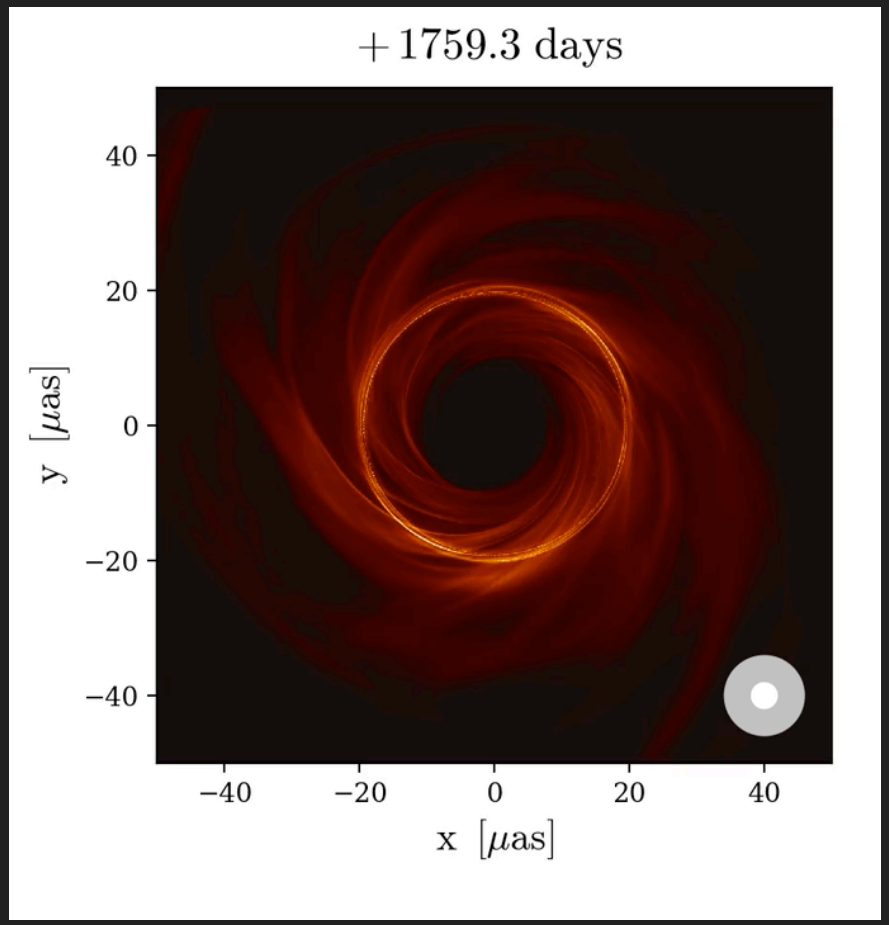
image sample



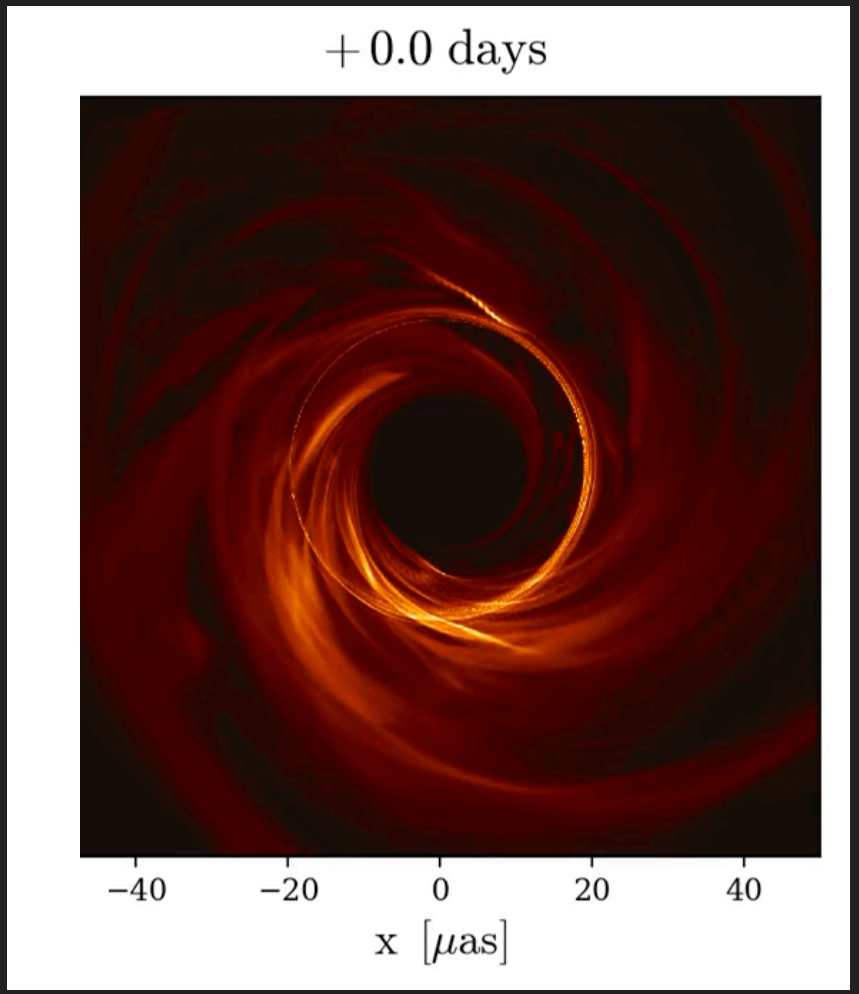
EHT Paper V

image properties

inclination

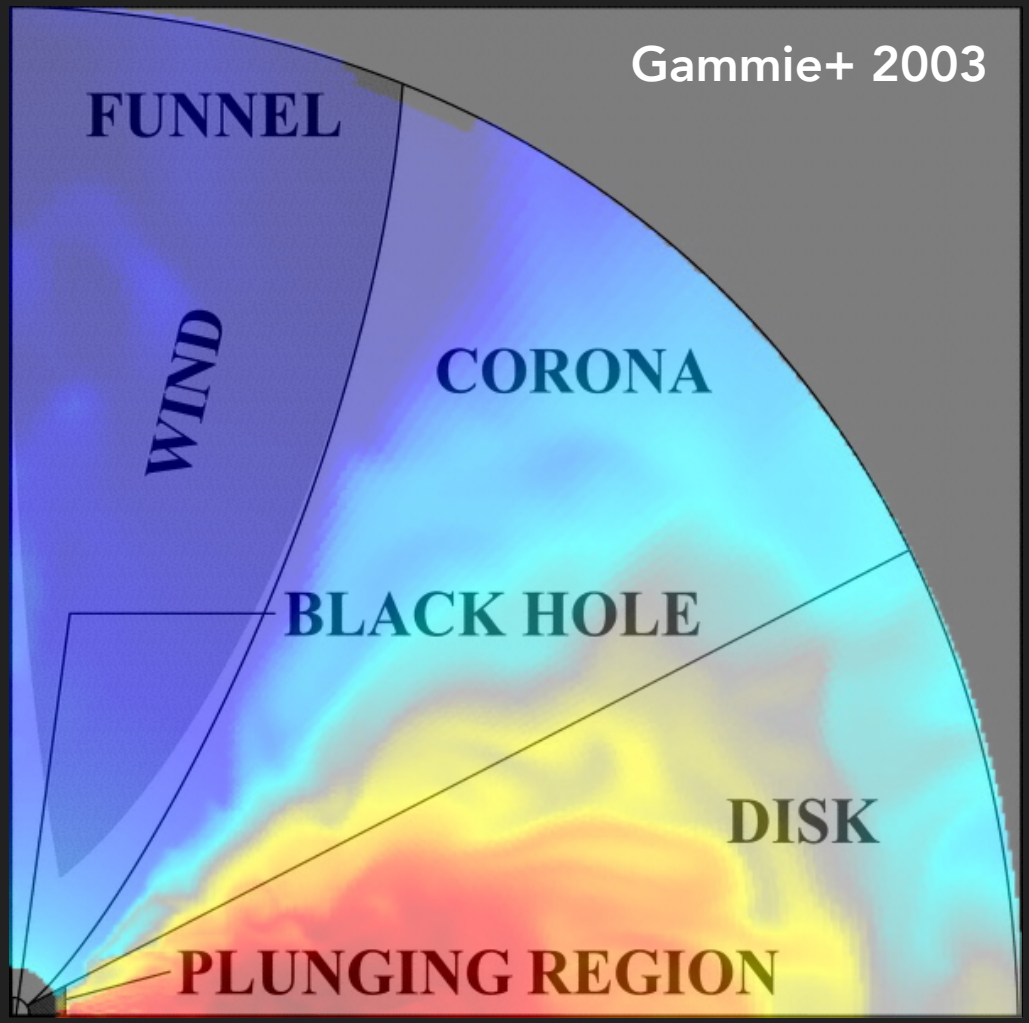


time



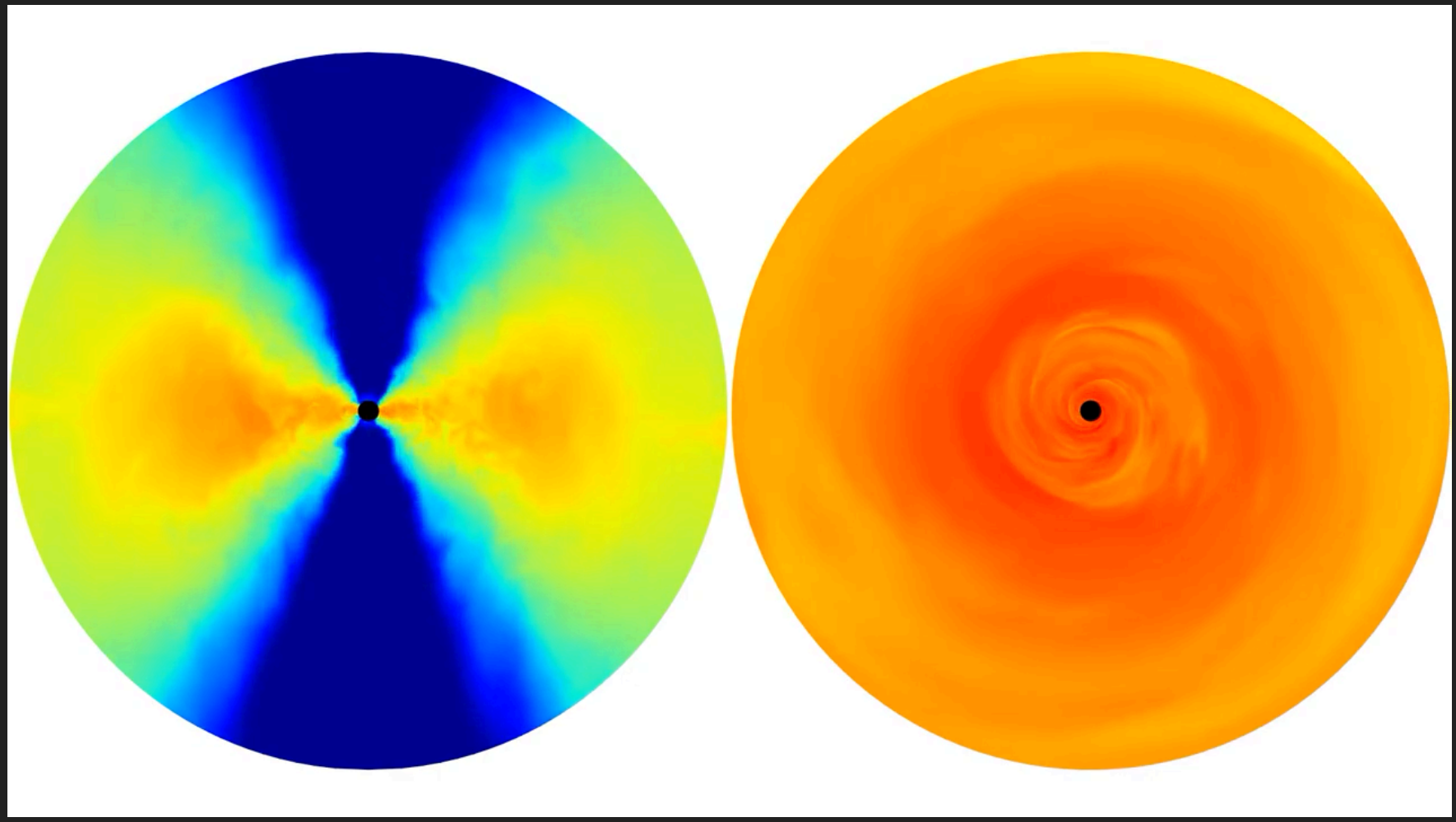
accretion disk anatomy

- Model parameters:
  - Mass
  - Spin
  - Disk tilt
  - Accretion rate
  - Magnetic flux
  - Inclination
  - Electron thermodynamics
    - Electron distribution function
    - Electron/ion heating



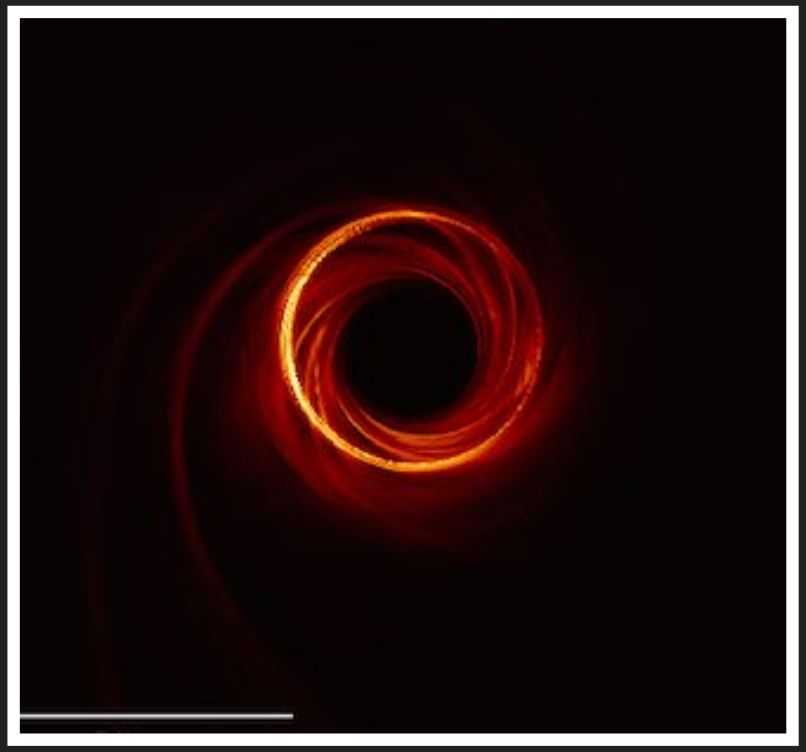
GRMHD model

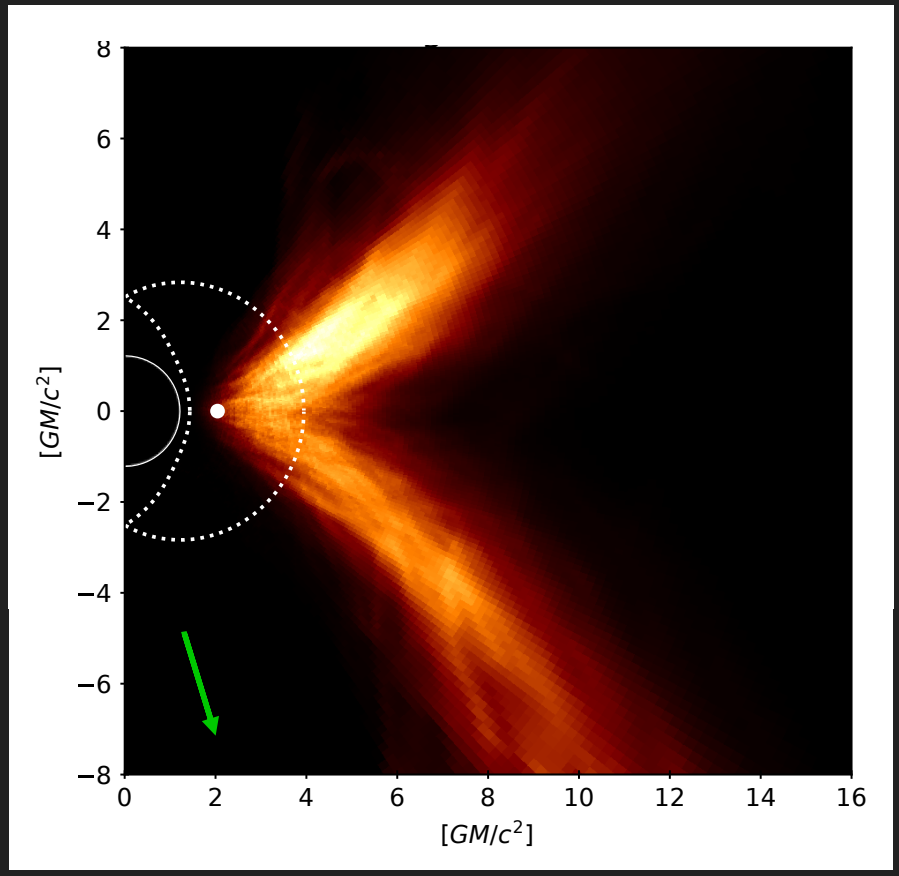
model description: MAD, a=+15/16 (prograde)



emission source

model description: MAD, a=15/16, prograde, “cool disk” model





rotation in the funnel

Log[rho] on r = const surface