

- 1. Self-consistent MHD wind emanating from the AGN accretion disk
- 2. Accretion disk photons are scattered on the wind particles and create an isotropic external photon field.

All parameters of the problem are related to the mass accretion rate:

$$egin{aligned} U_{
m B} \propto rac{\dot{m}}{\mathcal{M}}, \ U_{
m ext} \propto U_{
m ec} \propto rac{\dot{m}^{lpha+1}}{1} & (lpha=1 ext{ for } \dot{m} > 0.1 ext{ and } lpha=2 ext{ for } \dot{m} < 0.1). \end{aligned}$$

$$U_{
m ext} \propto U_{
m sc} \propto rac{m^{-1}}{\mathcal{M}} ~~(lpha=1 ext{ for } \dot{m} \geq 0.1 ~~ ext{and} ~lpha=2 ext{ for } \dot{m} < 0.1),$$

- 1. We assume that particles accelerate into a zone close to the black hole and calculate their Spectral Energy Distribution (SED), by solving the integro-differential kinetic equations numerically.
- 2. We inject the escaping electrons from the Radiation zone into Cooling zone, which is at a larger distance and then we calculate the SED.
- We add up the fluxes of the two zones and obtain the total spectrum 3. and then the theoretical Blazar Sequence is reproduced.