1 TNG

Weinberger et al. (2017a), Weinberger et al. (2017b), Pillepich et al. (2017) Pillepich et al. (2018)

$$\dot{M}_{\rm BH} = \frac{4\pi\alpha G^2 M_{\rm BH}^2 \rho}{(c_s^2 + v^2)^{3/2}} \tag{1}$$

$$\dot{M}_{\rm Edd} = \frac{4\pi\alpha\, G\, M_{\rm BH}\, m_p}{\epsilon_{\rm r}\sigma_{\rm T} c} \tag{2}$$

2 EAGLE

Schaye et al. (2015), Crain et al. (2015)

3 FIRE-2

4 MUFASA

	ILLUSTRIS	TNG
BH Seed Mass	$1 \times 10^5 h^{-1}$ $M_\odot$	$1 \times 10^5 h^{-1}$ $M_\odot$
FoF Halo Mass for BH seeding	$5 \times 10^{10} h^{-1}$ $M_\odot$	$5 \times 10^{10} h^{-1}$ $M_\odot$
BH accretion	$\alpha = 100$ Boosted Bondi-Holye	Unboosted Bondi-Hoyle (w/v_A)
BH accretion	parent gas cell, Eddington limited	nearby cells, Eddington limited
BH positioning	fixed to halo potential minimum	fixed to halo potential minimum

Table 1: What are the similiarties and differences between Proto-stellar and AGN accretion disks?

References

Crain R. A., et al., 2015, MNRAS, 450, 1937

Pillepich A., et al., 2017, ArXiv e-prints

Pillepich A., et al., 2018, MNRAS, 473, 4077

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Weinberger R., et al., 2017a, MNRAS, 465, 3291

Weinberger R., et al., 2017b, ArXiv:1710.04659v1