

Halo accretion, gas inflow and cooling

 $\Delta M_{\rm g,avail}$, $\Delta M_{\rm g,cool}(M_{\rm cool},\beta_{\rm cool})$, $\Delta M_{\rm g,hot}$

Gas evolution

 $\Delta M_{\rm g,ej}(f_{\rm ej,sn},f_{\rm ej,agn}), \Delta M_{\rm g,prev},$

 $\Delta M_{\rm g,out}$, $\Delta M_{\rm g}$, $\Delta M_{\rm g,nonsf}$

SN and AGN feedbacks

 $\Delta M_{\rm g,sf}(\alpha_{\rm sn},\beta_{\rm sn},V_{\rm w},\alpha_{\rm agn})$

Star formation and SMBH growth

 $\Delta M_*(\epsilon_{*,f}), \Delta M_{\rm bh}(\alpha_{\rm cap}, \alpha_{\rm en}, \beta_{\rm en}, M_{\rm en})$