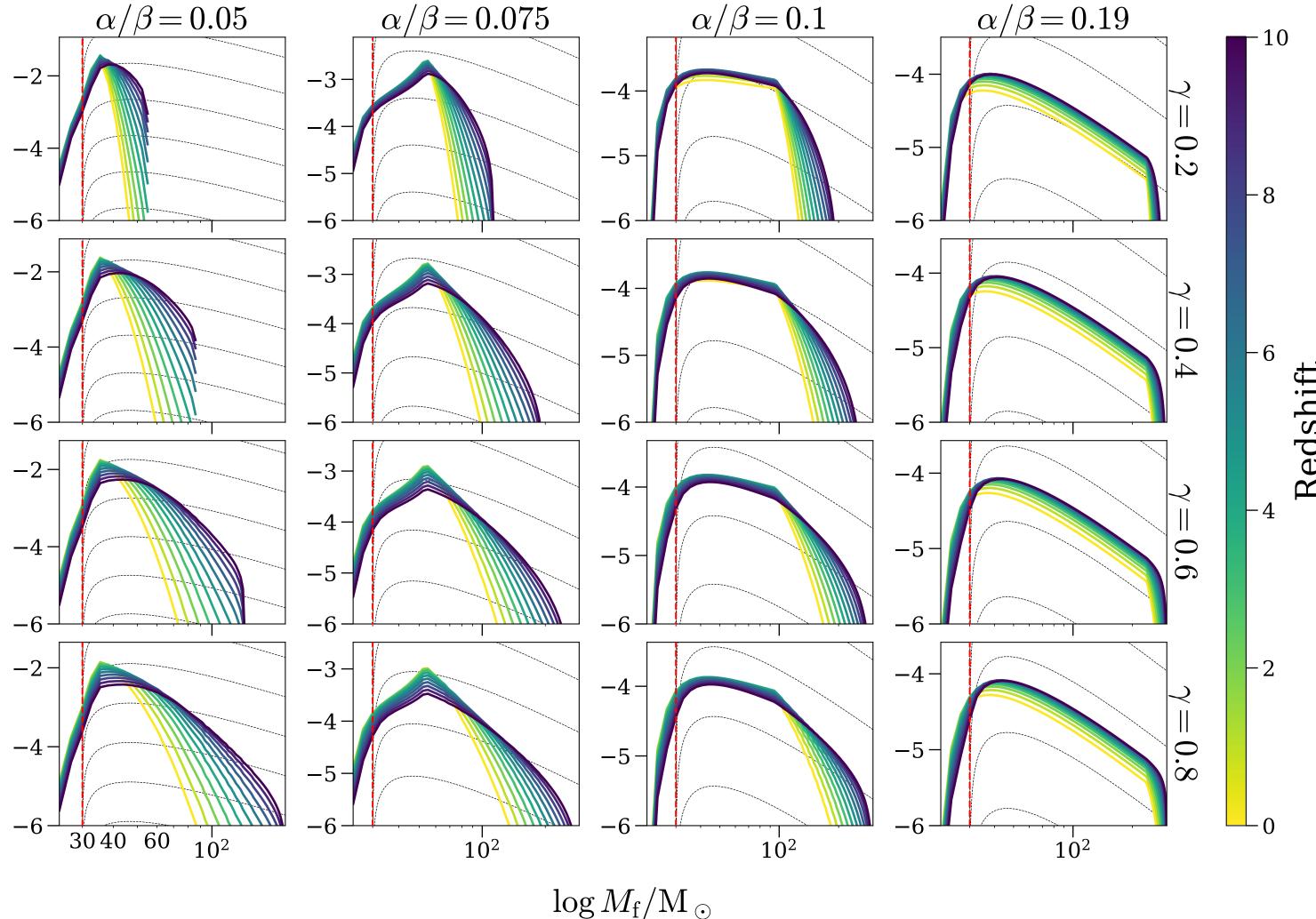
$au\!=\! au_r(M_i/M_r)^lpha$, $\dot{M}\!=\!\dot{M}_r(Z/Z_\odot)^\gamma(M_r/M_r)^eta$ $M_r = 30\,\mathrm{M}_\odot$, $au_r = 10^{6.0}\,\mathrm{yr}$, $\dot{M}_r = 10^{-5.0}\,\mathrm{M}_\odot~\mathrm{yr}^{-1}$, lpha = 0.2 $\alpha/\beta = 0.1$ $\alpha/\beta = 0.19$ -4-**-4 -**5 **-**5 -6 **-**6 -4-4-0.4 **-**5 **-**5 Redshift **-**6 **-**4 -4-0.6**-**5 **-**5 -4-**-**4-**-**5-**-**5-



CHE cut-off M_i

 $\log \mathrm{d}N_{\mathrm{CHE}}/\mathrm{d}M_{\mathrm{f}}$

CHE IMF