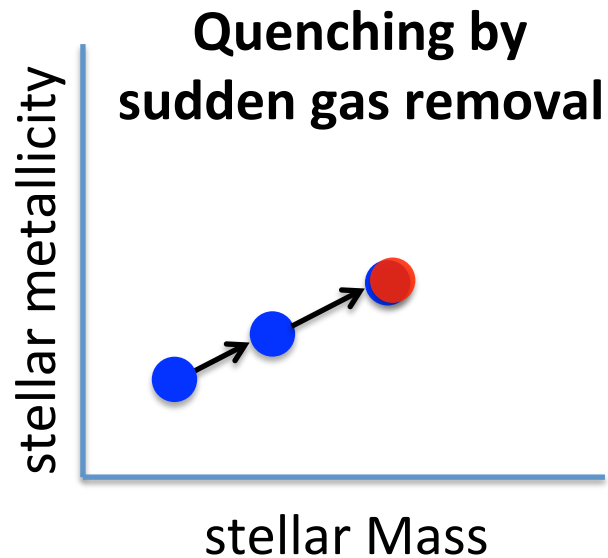
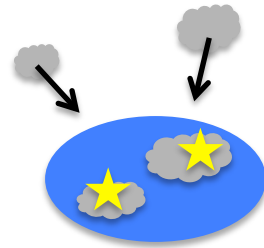


# Stellar metallicities as a tracer of quenching mechanisms

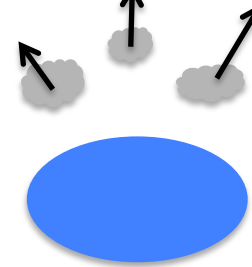


gas accretion

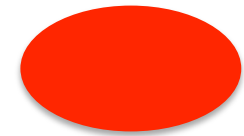


accreting  
star forming  
galaxy

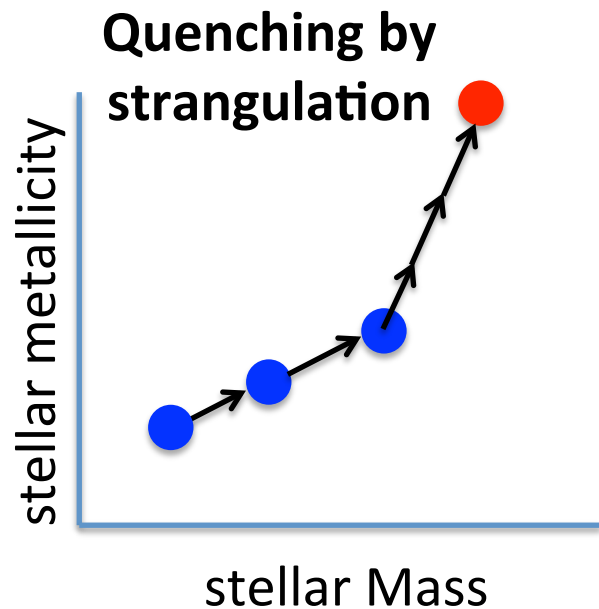
gas removal



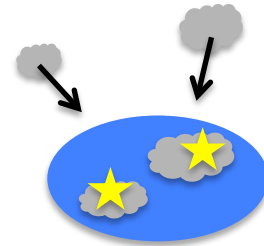
star formation  
stops



passive  
galaxy



gas accretion

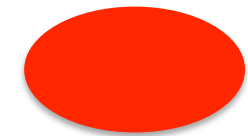


accreting  
star forming  
galaxy

no more  
inflow  
(strangulation)



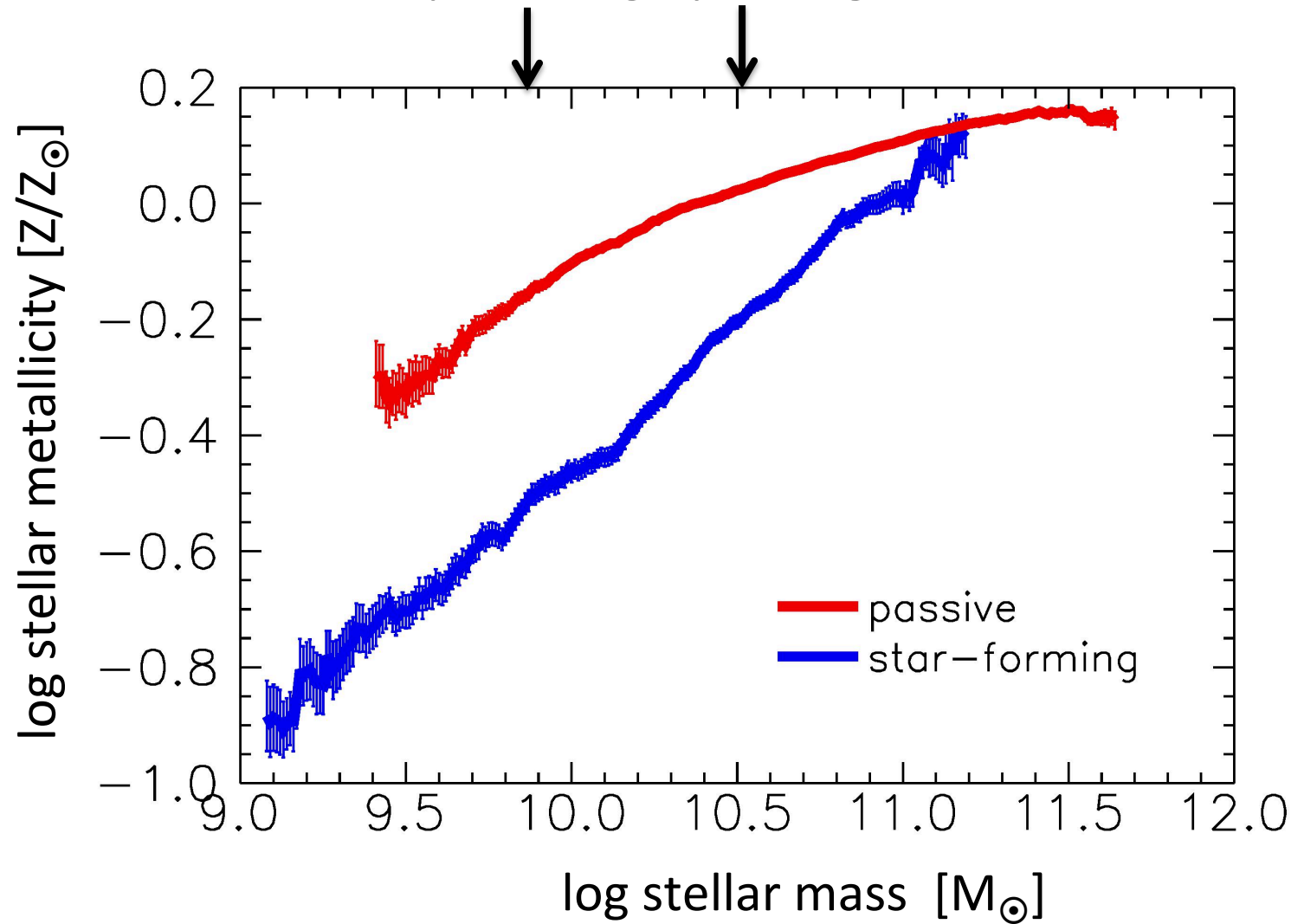
star formation  
continues  
with available gas  
(~closed box evolution)



passive  
galaxy

Observed stellar  
metallicities in 25,0000  
local SDSS galaxies

galaxies with  $M_{\text{star}} < 10^{11} M_{\odot}$ :  
quenching by **strangulation**



Peng, Maiolino, Cochrane 2015