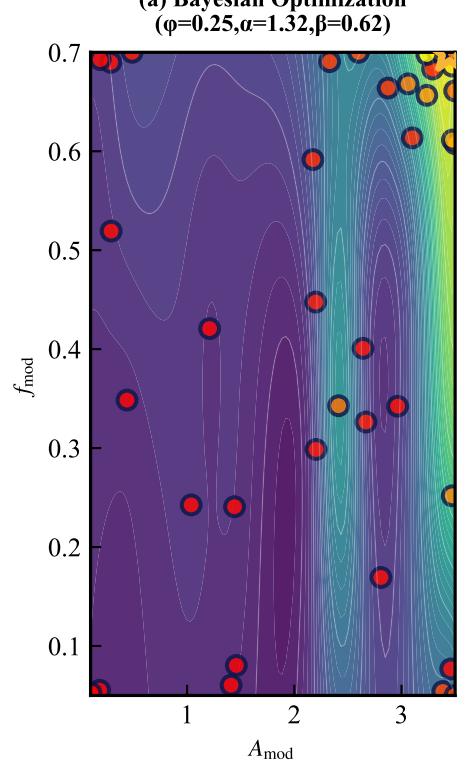
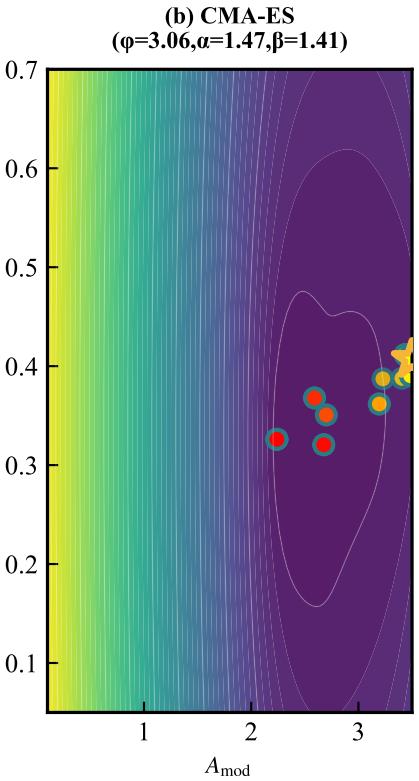


# 5D Parameter Space Visualization (Slices + t-SNE Reduction)

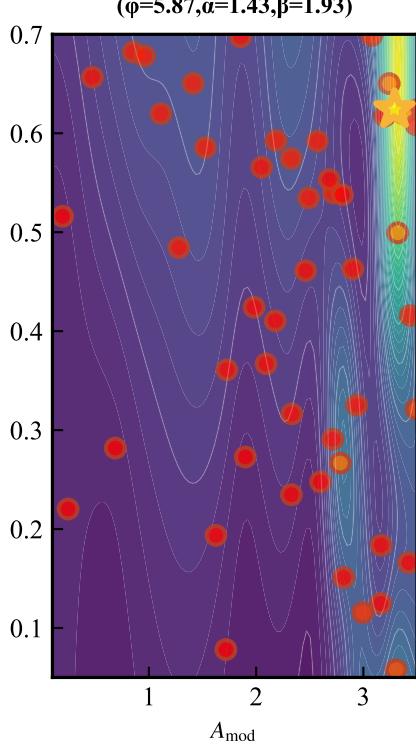
(a) Bayesian Optimization  
( $\varphi=0.25, \alpha=1.32, \beta=0.62$ )



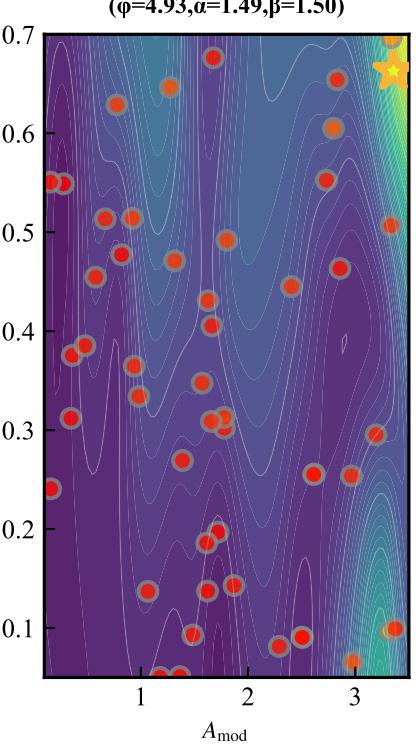
(b) CMA-ES  
( $\varphi=3.06, \alpha=1.47, \beta=1.41$ )



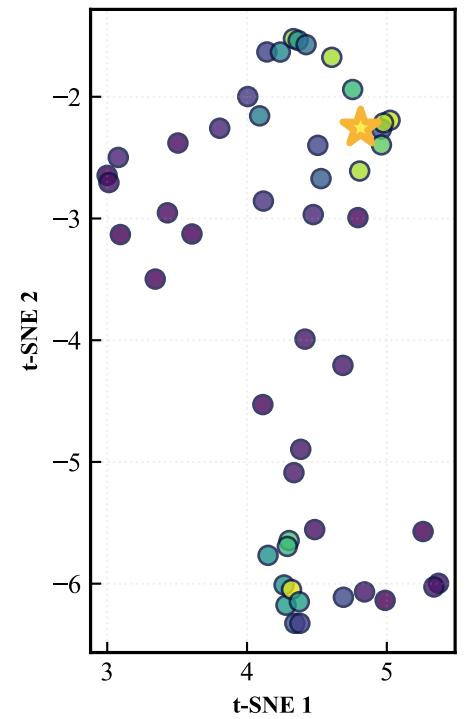
(c) TPE  
( $\varphi=5.87, \alpha=1.43, \beta=1.93$ )



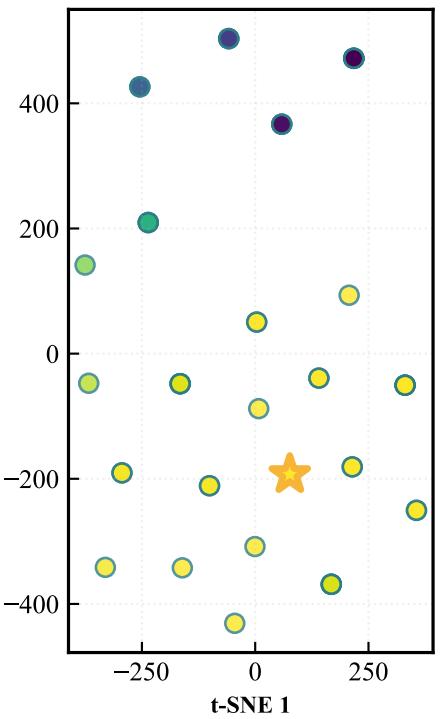
(d) Random Search  
( $\varphi=4.93, \alpha=1.49, \beta=1.50$ )



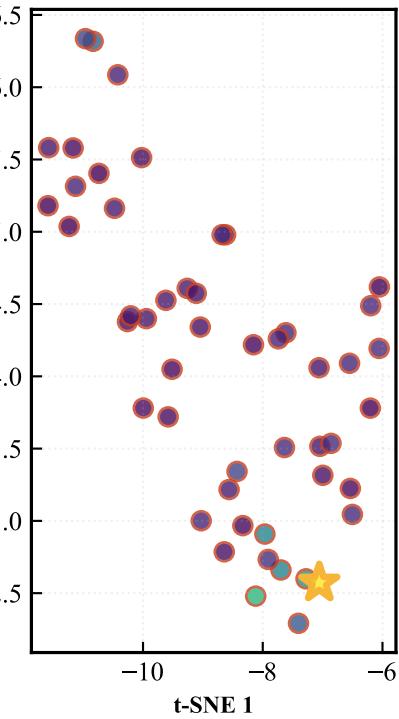
(e) Bayesian Optimization  
t-SNE 5D→2D



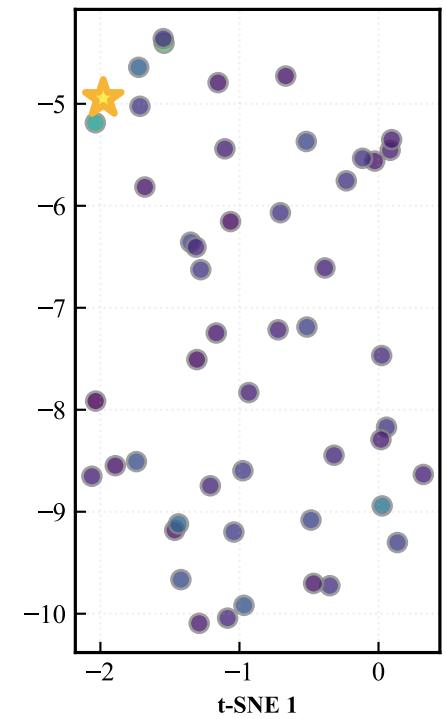
(f) CMA-ES  
t-SNE 5D→2D



(g) TPE  
t-SNE 5D→2D



(h) Random Search  
t-SNE 5D→2D



Objective Score