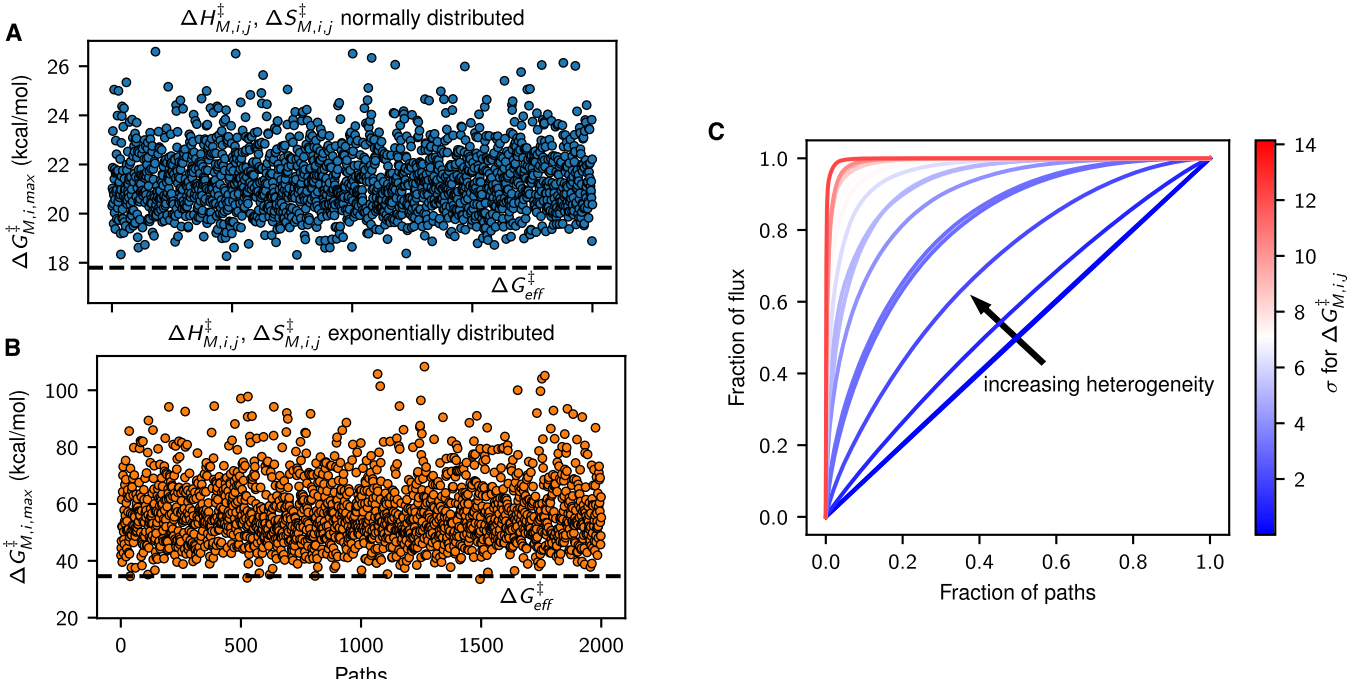
A
$\Delta H^{\ddagger}_{M,i,j}$, $\Delta S^{\ddagger}_{M,i,j}$ normally distributed
$\Delta G^{\ddagger}_{M,i,max}$ (kcal/mol)
26
24
22
20
18
$\Delta G^{\ddagger}_{eff}$
B
$\Delta H^{\ddagger}_{M,i,j}$, $\Delta S^{\ddagger}_{M,i,j}$ exponentially distributed
$\Delta G^{\ddagger}_{M,i,max}$ (kcal/mol)
100
80
60
40
20
$\Delta G^{\ddagger}_{eff}$
0
500
1000
1500
2000
Paths
C
Fraction of flux
1.0
0.8
0.6
0.4
0.2
0.0
increasing heterogeneity
0.0
0.2
0.4
0.6
0.8
1.0
Fraction of paths
14
12
10
8
6
4
2
σ for $\Delta G^{\ddagger}_{M,i,j}$