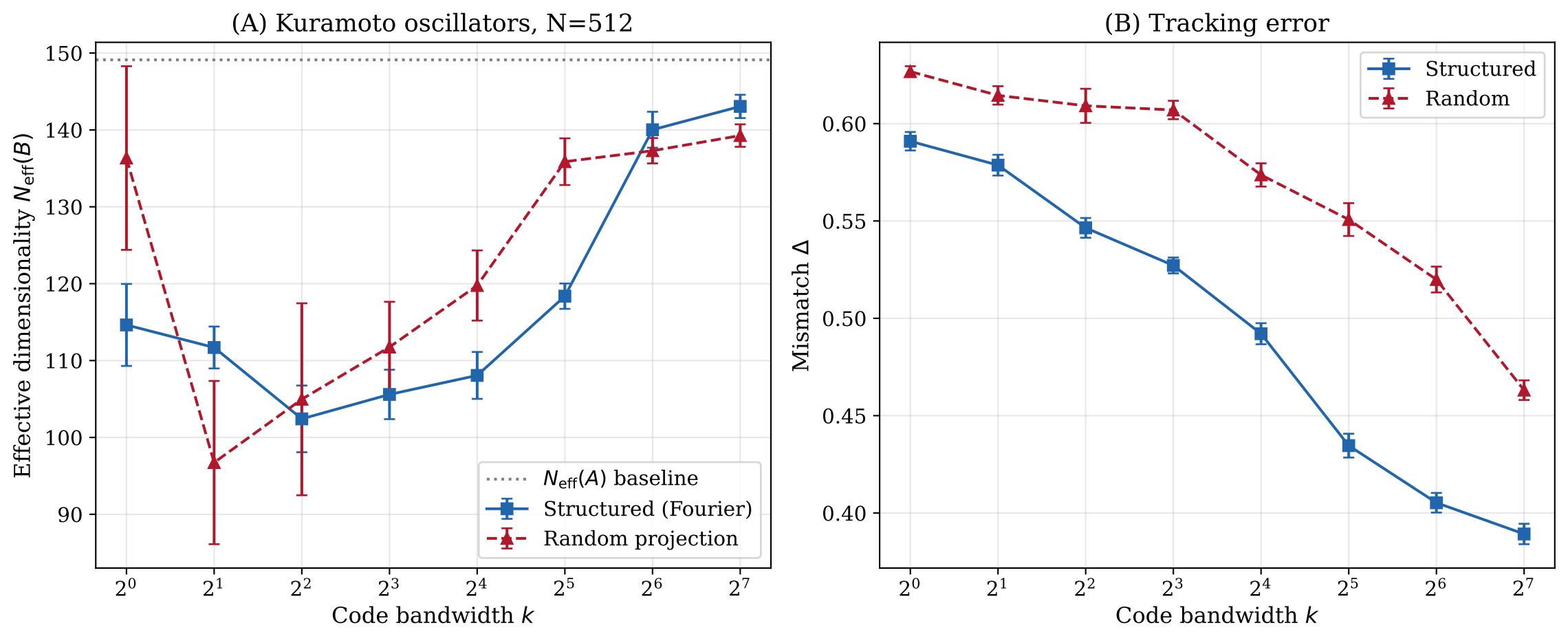
(A) Kuramoto oscillators, N=512
Effective dimensionality $N_{\text{eff}}(B)$
150
140
130
120
110
100
90
$N_{\text{eff}}(A)$ baseline
Structured (Fourier)
Random projection
2^0
2^1
2^2
2^3
2^4
2^5
2^6
2^7
Code bandwidth k
(B) Tracking error
Mismatch Δ
0.60
0.55
0.50
0.45
0.40
Structured
Random
2^0
2^1
2^2
2^3
2^4
2^5
2^6
2^7
Code bandwidth k