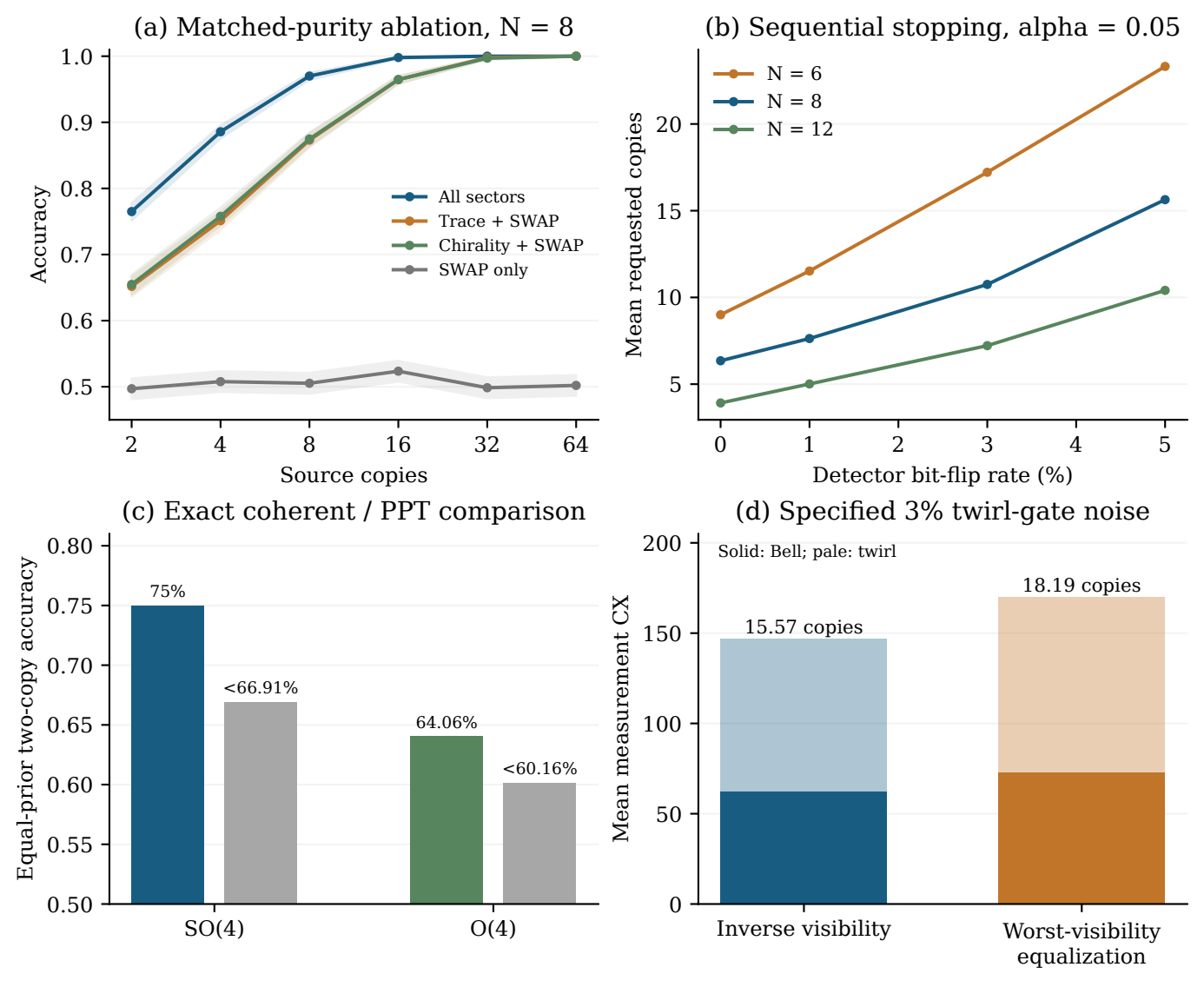

(a) Matched-purity ablation, N = 8
Accuracy
1.0
0.9
0.8
0.7
0.6
0.5
All sectors
Trace + SWAP
Chirality + SWAP
SWAP only
2
4
8
16
32
64
Source copies
(b) Sequential stopping, alpha = 0.05
Mean requested copies
20
15
10
5
N = 6
N = 8
N = 12
0
1
2
3
4
5
Detector bit-flip rate (%)
(c) Exact coherent / PPT comparison
Equal-prior two-copy accuracy
0.80
0.75
0.70
0.65
0.60
0.55
0.50
75%
<66.91%
64.06%
<60.16%
SO(4)
O(4)
(d) Specified 3% twirl-gate noise
Solid: Bell; pale: twirl
Mean measurement CX
200
150
100
50
0
15.57 copies
18.19 copies
Inverse visibility
Worst-visibility equalization