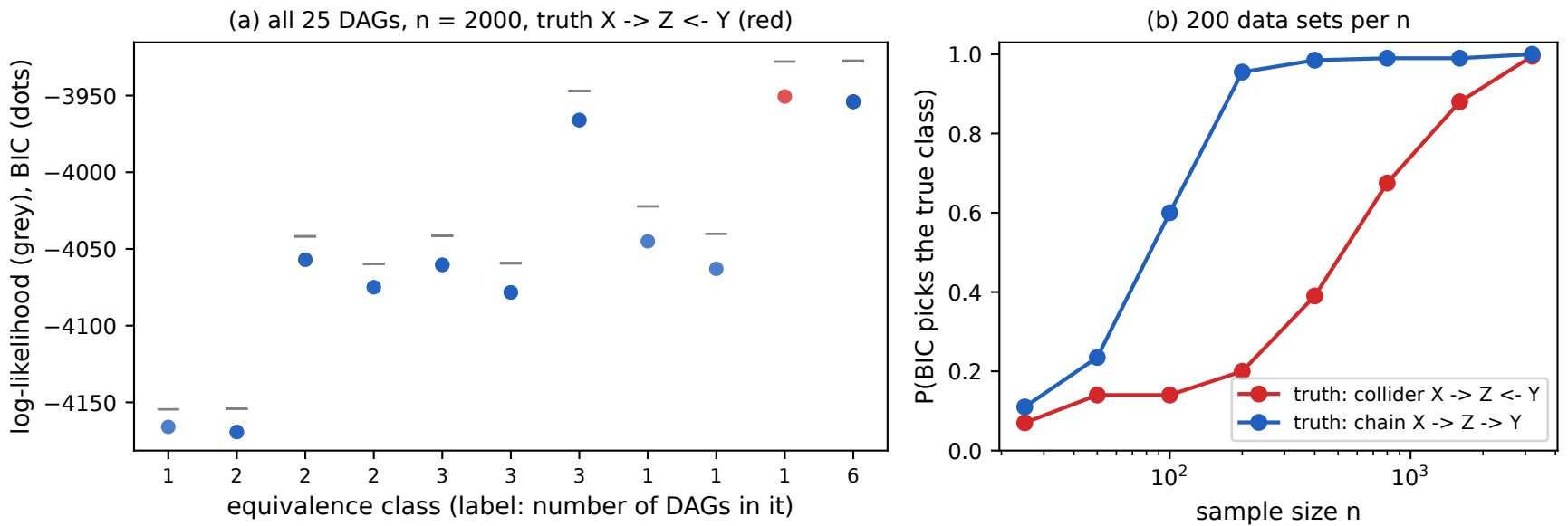

(a) all 25 DAGs, n = 2000, truth X -> Z <- Y (red)
log-likelihood (grey), BIC (dots)
−3950
−4000
−4050
−4100
−4150
1 2 2 2 3 3 3 1 1 1 6
equivalence class (label: number of DAGs in it)
(b) 200 data sets per n
P(BIC picks the true class)
1.0
0.8
0.6
0.4
0.2
0.0
10^2
10^3
sample size n
truth: collider X -> Z <- Y
truth: chain X -> Z -> Y