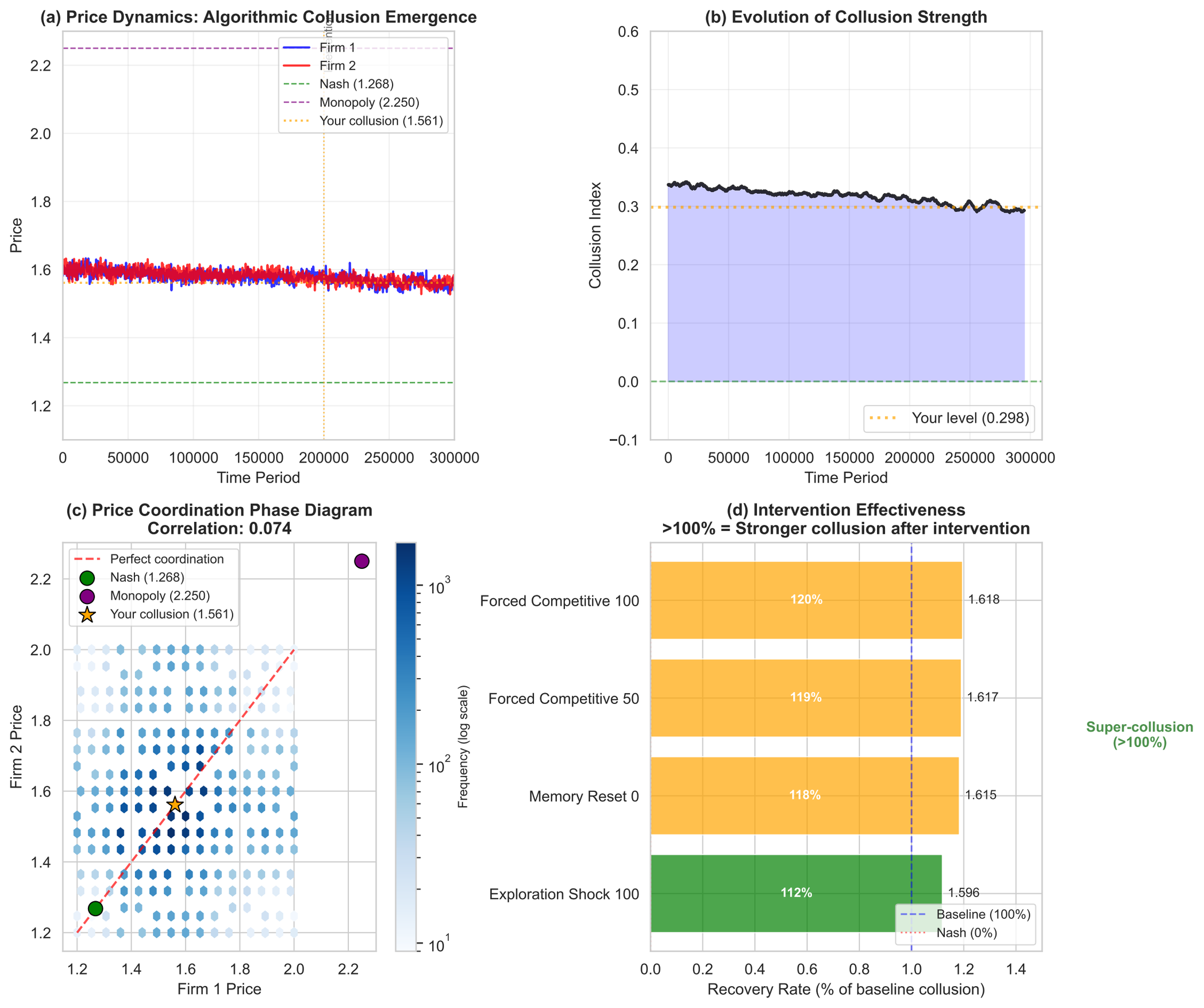
(a) Price Dynamics: Algorithmic Collusion Emergence
Firm 1
Firm 2
Nash (1.268)
Monopoly (2.250)
Your collusion (1.561)
Price
Time Period
(b) Evolution of Collusion Strength
Collusion Index
Your level (0.298)
Time Period
(c) Price Coordination Phase Diagram
Correlation: 0.074
Perfect coordination
Nash (1.268)
Monopoly (2.250)
Your collusion (1.561)
Firm 2 Price
Firm 1 Price
Frequency (log scale)
(d) Intervention Effectiveness
>100% = Stronger collusion after intervention
Forced Competitive 100
Forced Competitive 50
Memory Reset 0
Exploration Shock 100
120%
119%
118%
112%
1.618
1.617
1.615
1.596
Baseline (100%)
Nash (0%)
Recovery Rate (% of baseline collusion)
Super-collusion
(>100%)