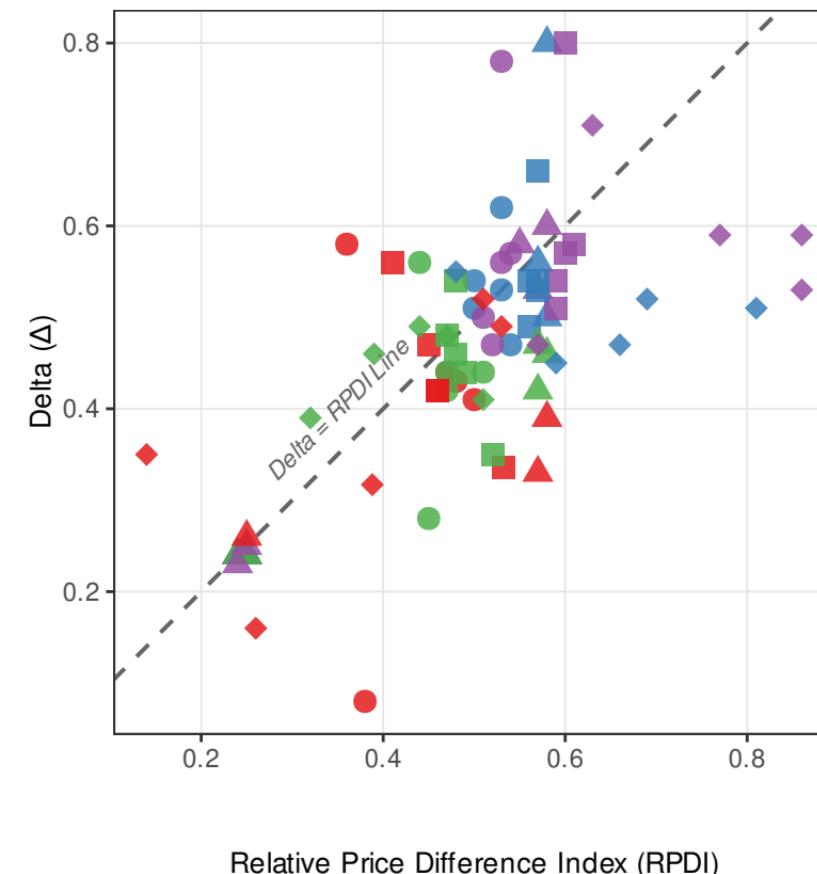
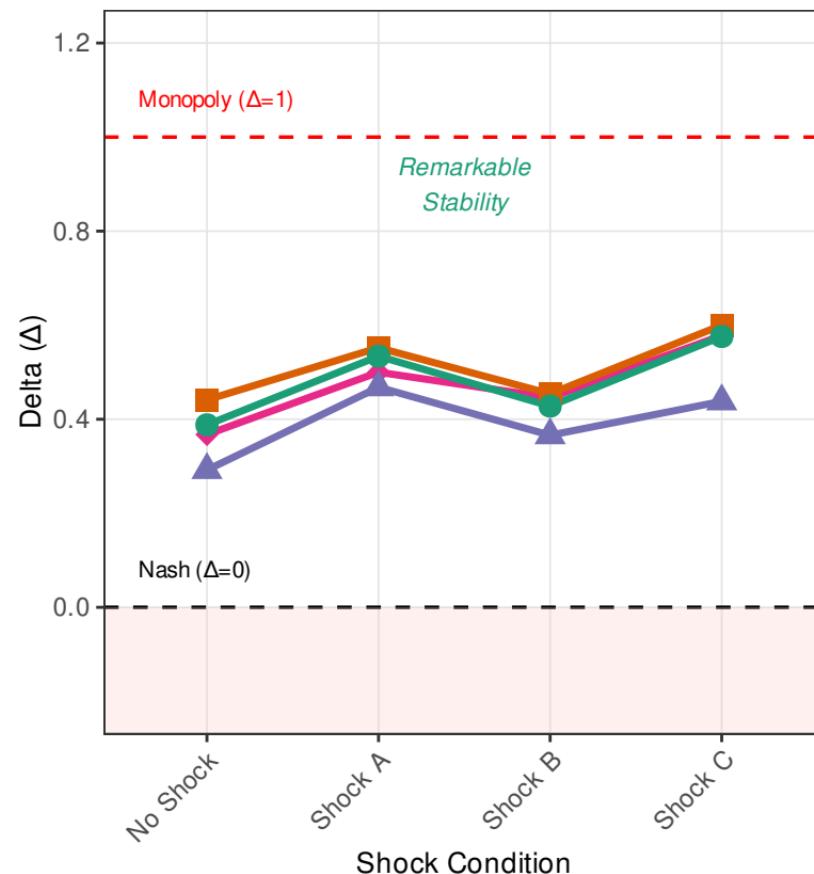


# HOTELLING Model: Algorithmic Competition Analysis

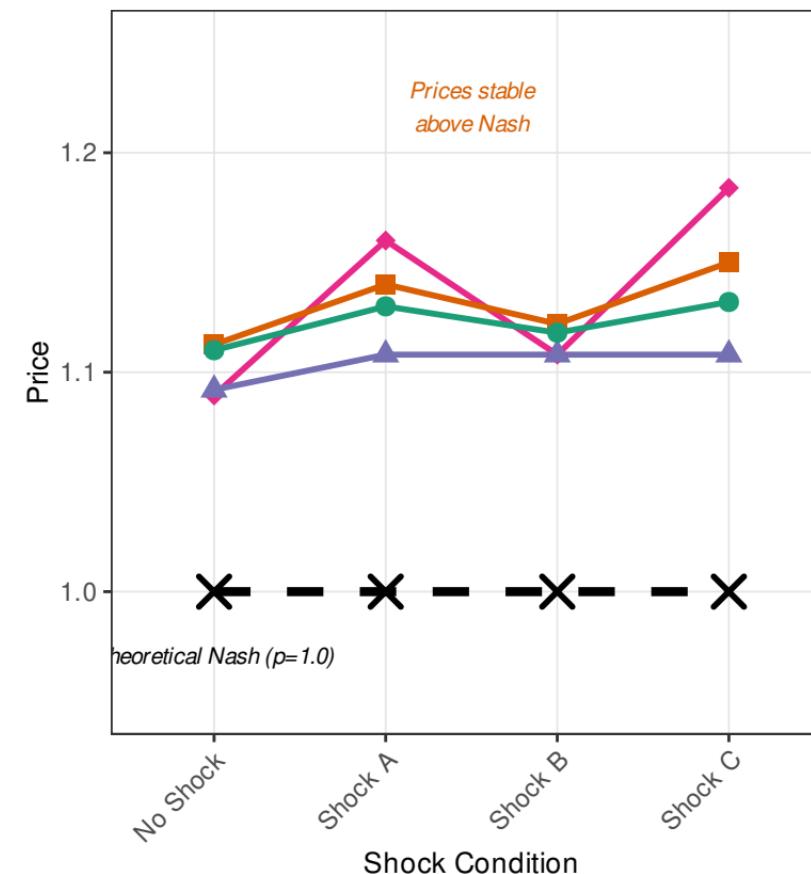
$\Delta$  vs RPDI Relationship



Shock Impact on  $\Delta$



Price vs Benchmark



## Algorithm

- ◆ DDPG
- DQN
- ▲ PSO
- Q-learning

## Shock Condition

- No Shock
- Shock A
- Shock B
- Shock C