## Qeios

### Peer Review

# Review of: "Pareto-Nash Allocations Under Incomplete Information: A Model of Stable Optima"

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#### Comments for v1

The paper addresses an ambitious topic in its current form. However, the theoretical framework and exposition are not yet sufficiently developed to achieve the paper's objectives.

For example, the author should explain the meaning of each equation more clearly. I do not understand the players' objectives, the decision-making flow, or the information available to them. The following are just a few of the questionable points I have identified.

- 1. Around equation (3.0.1), the author writes that the profit function is linear, but in (3.0.1),  $\pi$  is not linear in p. Further, what is the difference between  $\pi(\dot{p}, q)$  and  $\pi_{i,t}$ ? Why is it constrained?
- 2. I also don't understand how (3.0.4) is derived.
- 3. It appears that the dynamics of x and y are being analyzed, but they seem to be independent of p and q.

#### Declarations

Potential competing interests: No potential competing interests to declare.

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