



# Quantum phenomenology of conjunction fallacy

Taksu Cheon, Taiki Takahashi

(Submitted on 16 Jul 2011)

A quantum-like description of human decision process is developed, and a heuristic argument supporting the theory as sound phenomenology is given. It is shown to be capable of quantitatively explaining the conjunction fallacy in the same footing as the violation of sure-thing principle.

Comments: LaTeX 8 pages, 2 figures  
Subjects: **Biological Physics (physics.bio-ph)**; Quantum Physics (quant-ph)  
Journal reference: J. Phys. Soc. Jpn. 81 (2012) 104801(5pp)  
DOI: [10.1143/JPSJ.81.104801](https://doi.org/10.1143/JPSJ.81.104801)  
Cite as: [arXiv:1107.3259](https://arxiv.org/abs/1107.3259) [physics.bio-ph]  
(or [arXiv:1107.3259v1](https://arxiv.org/abs/1107.3259v1) [physics.bio-ph] for this version)

## Submission history

From: Taksu Cheon [[view email](#)]  
[v1] Sat, 16 Jul 2011 22:04:43 GMT (63kb,D)

[Which authors of this paper are endorsers?](#)

Link back to: [arXiv](#), [form interface](#), [contact](#).

## Download:

- [PDF](#)
- [Other formats](#)

Current browse context:

physics.bio-ph

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1107](#)

Change to browse by:

[physics](#)

[quant-ph](#)

## References & Citations

- [NASA ADS](#)

Bookmark([what is this?](#))

