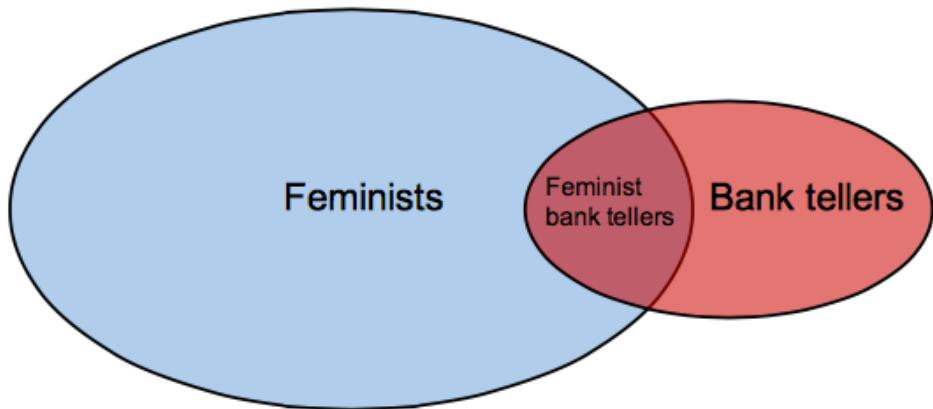


MSHS

AXE 1 COGNITION & COOPÉRATION



Source : http://bias123.com/conjunction_fallacy

Quantum-like Models of Cognition Workshop

Axe 1 - MSHS Sud-Est

The Nice 2016 Workshop on “Quantum-like Models of Cognition” is at its second edition. The workshop is devoted to disseminate some recent advances on “quantum-like” models of cognition. It is an interdisciplinary workshop that gathers specialists from the various fields that contribute to the problems under discussion: economics, psychology, cognitive sciences and physics.

Human cognition displays features that are known to be hard to model within classical probabilistic frameworks. Order effects (the answers given to two questions depend on the ordering of these questions), conjunction fallacies (a conjunction of events is more likely than a single of these events), and disjunction fallacies (an agent is more likely to be part of a subset than of a larger set) are significant examples of such behavioral irregularities. To account for these effects, a series of quantum models have

recently been developed. They are “quantum” insofar as they use the mathematical tools employed in the contemporary physical theory of quantum mechanics. More generally, quantum models have been proposed to model other aspects of cognition, like memory, or to renew approaches in game theory.

11:30 **Ariane Lambert-Mogiliansky** (Paris School of Economics, France):

Dynamic consistency in decision making under non classical uncertainty

12:30 lunch

14:00 **Sébastien Duchêne** (UNS), **Ismael Rafai** (UNS), Eric Guerci (UNS), Ariane Lambert-Mogiliansky, & Fabien Mathy (UNS):

Quantum-Like Learning: a Theoretical and Experimental Study

15:00 Jacob Denolf (Ghent University, Belgium) present:
TBA

16:00 Wrap-up