





# Studying Deliberated Judgements

Olivier Cailloux LAMSADE, Université Paris-Dauphine

### Context and goal of this poster

#### Context

- Internal deliberation facing a decision problem
- Considering an individual i

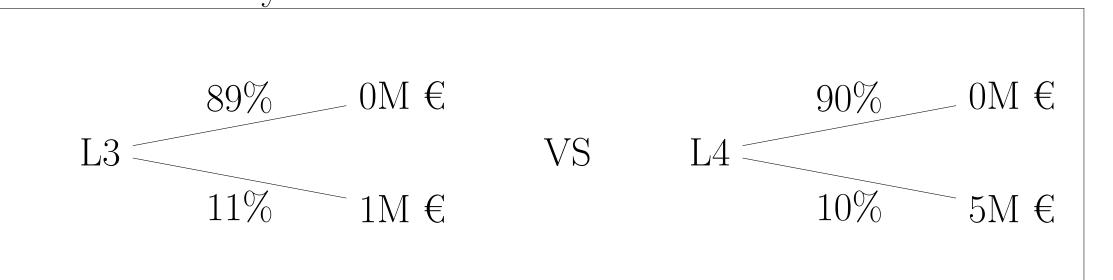
#### Goal

- Introduce the notion of Deliberated Judgement
- Motivate studying it
- Sketch how

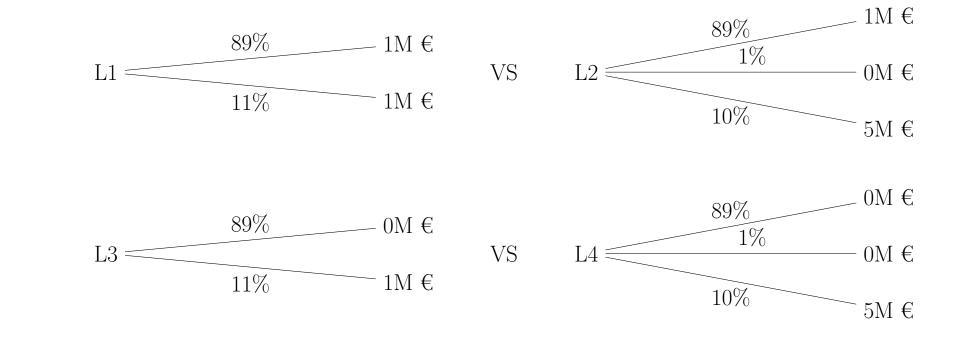
# Deliberated judgement: a missing conception of "preference"

- Descriptive approach
- -Observe people's epistemic position / choice without interference
- Normative approach
- -How you ought to reason / choose
- -Can't be validated through observation of individuals
- Deliberated judgement (or preference)
- -i's position after having considered all arguments

## Deliberation can change your mind



- First observation (Bernouilli): don't be content with maximizing (untransformed) expected revenue!
- Second observation: i could be intuitively attracted by L1  $\succ$  L2 and L3  $\succ$  L4 (Allais's problem)
- Including Savage
- And might change her mind when given a reasoning pro expected utility
- "There is, of course, an important sense in which preferences, being entirely subjective, cannot be in error"
- ... "but in a different, more subtle sense they can be." (Savage, The Foundations of Statistics)
- ⇒ Systematic decision principles might help deliberate



### Study deliberated judgement

The proposed research program aims at the following.

- . Define Deliberated Judgment (DJ) formally
- Given a set of arguments
- Of an individual i
- $\Rightarrow$  The position that is stable facing counter-arguments
- 2. Define the concept of a model of someone's DJ
- $\Rightarrow$  A model articulates claims concerning i's DJ and argues for its claim
- 3. Define validity of a model
- $\Rightarrow$  Correctly captures *i*'s DJ
- 4. Study conditions for falsifying models using observable data only
- $\Rightarrow$  Let models debate, use i as a judge

## Example of a situation and a model of it

Notation	Here	Description
$\overline{T}$	$\{t\}$	The topic, containing propositions about which $i$ deliberates
S	$\{s,s_1,s_2,s_3\}$	The arguments
$\leadsto \subseteq S \times T \ \{(s,t),(s_1,t)\}$		Support as considered by $i$
$\triangleright_\exists \subseteq S \times$	$S \{(s_2, s_1)\}$	Attacks as considered by $i$ in some perspective
$\triangleright_{\eta} \subseteq S \times S \ \{(s_3, s_2)\}$		Attacks as considered by the model $\eta$

weather f. predicts so  $(s_1) \rightsquigarrow \text{rain tomorrow } (t) \rightsquigarrow \text{complex arg. } (s)$ 

weather forecast is often wrong  $(s_2)$ 

 $\triangleright_{r}$ 

weather forecast is more often right  $(s_3)$ 

#### Application: test axioms of decision theory

- Axioms considered appropriate normatively?
- -But some (Allais, Ellsberg) disagree
- Proposal: build models resting on those axioms
- Test models: their convincing power will give us indications about the reasonableness of the axioms for "normal" people (meaning, not scientists studying decision theory)

## Application: test conceptions of justice

- Philosophers have proposed sophisticated conceptions of justice (Rawls, Nozick, ...)
- Individual's shallow intuitions about justice are observed and used to confront Rawls or others (Experimental Social Choice)
- Proposal: study reactions of individuals to arguments of philosophers rather than just shallow intuitions
- Move towards Reflective equilibrium (Goodman, Rawls)