

"Irrationality"

- Irrationality is a hallmark of human decisions
- Why are humans biased, stupid, irrational?
 - Using the wrong mental calculator (*optical illusion*)
 - Disagreement among mental calculators
 - Concerned with issues outside the risk analysis
 - Justice
 - Fairness
 - Chance the risk analyst is lying
 - Chance the risk analyst is inept

Different calculators





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DE TRAVAIL



LECTURARI

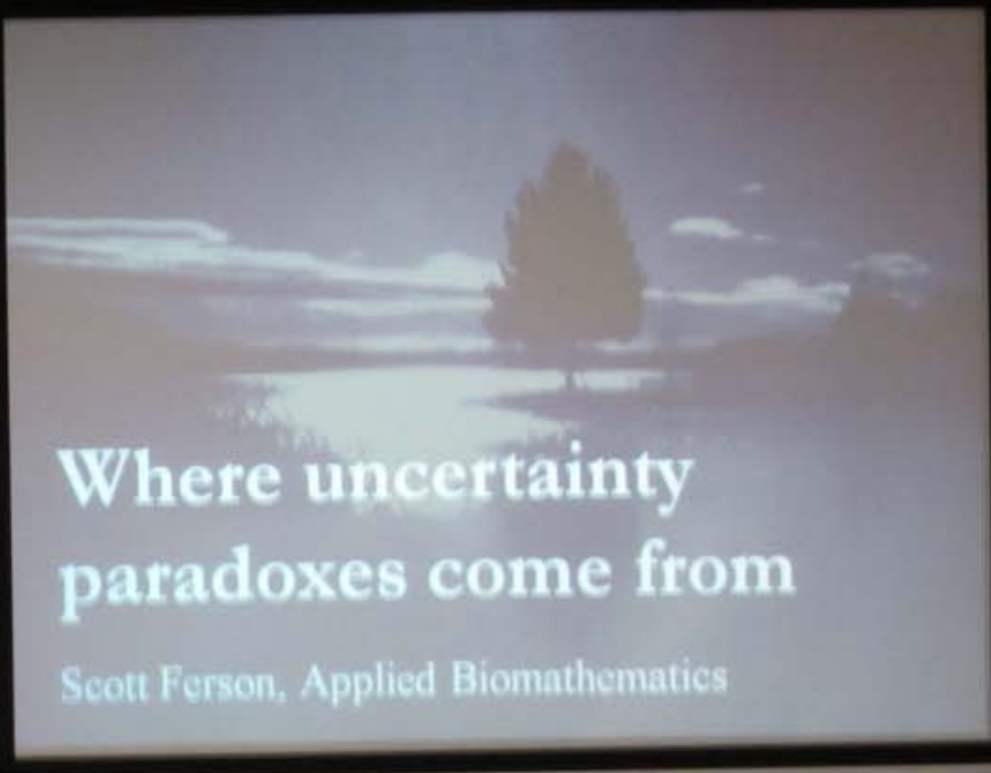
CENTRO DE INVESTIGACIÓ I INNOVACIÓ

Technique






Where uncertainty
paradoxes come from
Scott Ferson, Applied Biochemistry



Where uncertainty paradoxes come from

Scott Ferson, Applied Biomathematics





Where uncertainty
paradoxes come from

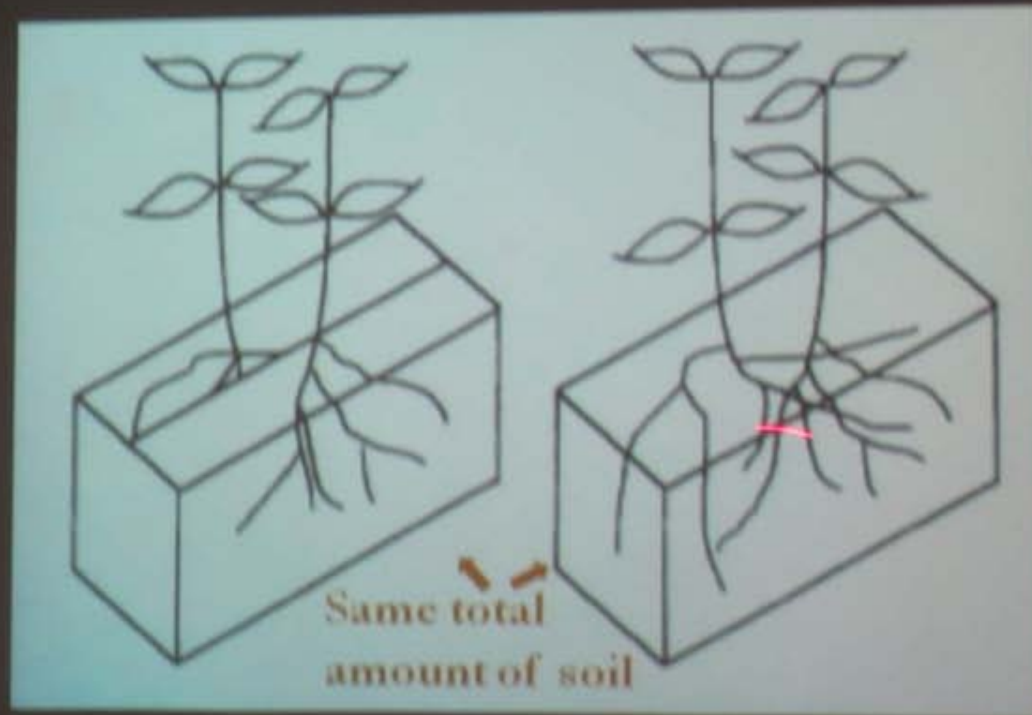
Scott Forman, Applied Biomathematics

Euclid

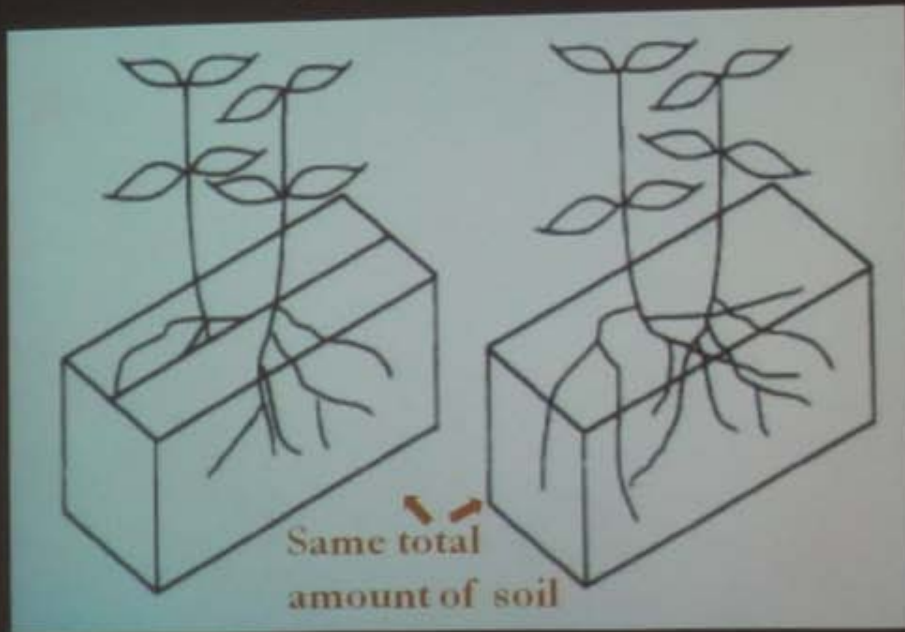
Given a line in a plane, how many parallel lines
can be drawn through a point not on the line?



And even in plants!



And even in plants!



- Responder: always accept any deal (it's free money!)
 - Proposer: always offer the smallest possible amount
- **Actual plays are much closer to fair**
 - Proposer offers a split much closer to 50:50
 - Responder accepts only if the split is closer to 50:50









- National Inst
- NASA
- Imprecision F
 - Christian Lub
 - Nick Frieden
 - Lev Ginzburg



- National Science Foundation
- National Institutes of Health
- NASA
- Imprecision Fridays
 - Christian Luhmann
 - Nick Friedenber
 - Lev Ginzburg

