

# Theorem Proving

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- **Given**
  - a formal language (or **logic**)  $L$
  - a **calculus**  $C$  for this language (= set of rules)
  - a **conjecture**  $S$  and a **set of assumptions or axioms**  $A$  in the language  $L$
  
- **Determine**
  - Can we **construct a proof** for  $S$  (from  $A$ ) in calculus  $C$ ?
  
- **Logic** = Syntax + Semantics + Calculus
- **TP** = Proof-search in  $C$  (Huge search problem)
  
- Correctness and completeness of Calculi essential properties
  
- Calculus = *Non-deterministic* Algorithm
- **Central problem in ATP**: How to implement a non-deterministic algorithm „efficiently“ on a deterministic machine :- )

# Automated Theorem Proving In Non Classic

**Annelies Wilder-Smith**



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