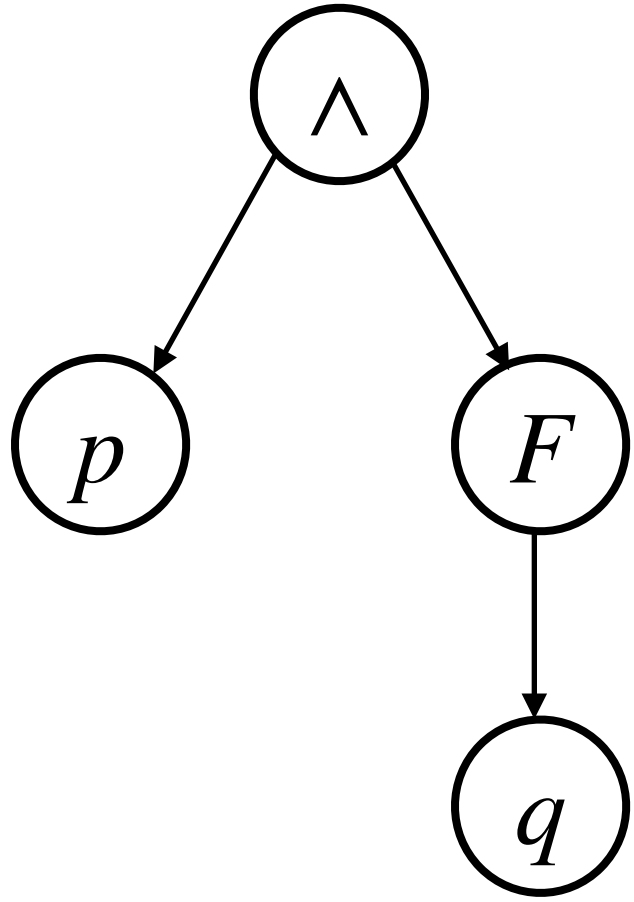
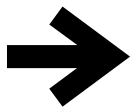


The General Solution

$p \wedge Fq$



Ψ_n

$=$



Ψ_{syn}
 n



Ψsep

Use SAT/SMTr solvers incrementally!

Ending in Boolean Arithmetic/Linear Real Arithmetic

Ψ sem



Ψ_1 X

Ψ_2 X

Ψ_3



Ψ_4





The General Solution Idea

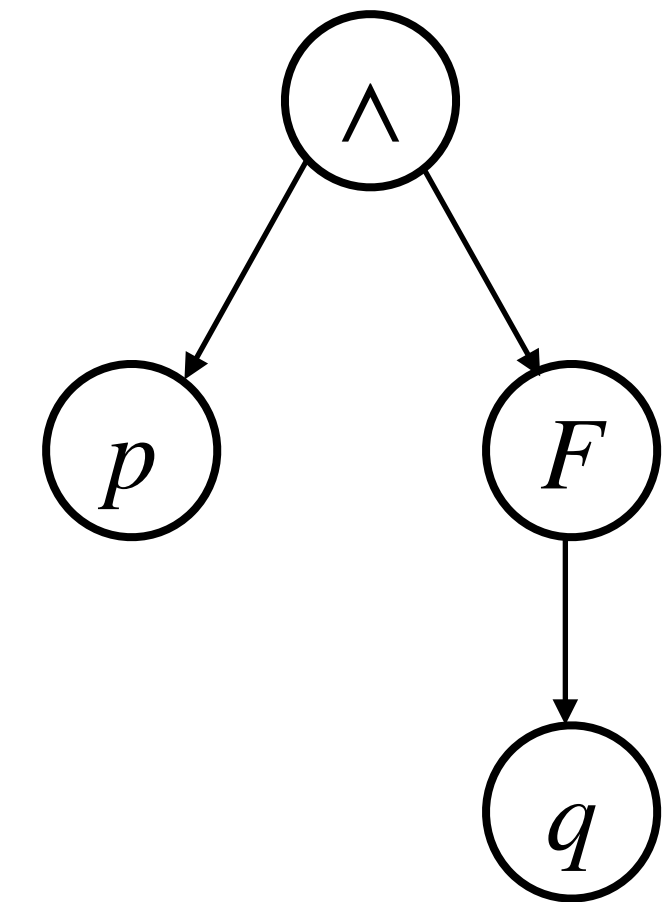
Encoding in Boolean Arithmetic/Linear Real Arithmetic

$$\Psi_n = \Psi_n^{syn} \wedge \Psi^{sem} \wedge \Psi^{sep}$$

Use SAT/SMT solvers incrementally!

Ψ_1 ✗ Ψ_2 ✗ Ψ_3 ✗ Ψ_4 ✓

$p \wedge Fq \Rightarrow$



Scalability: Different Approaches