## **Propositional Calculus Rules**

- Joining: from **A** and **B** we can make < **A** ^ **B** >
- Separation: from < A ^ B > we can make both A and B
- Double-tilde: ~~ can be inserted or deleted as long as the resulting string is well-formed
- Fantasy: if we can conclude B by starting from an assumption of A, then we can make < A ⊃ B >
- Carry-over: in a fantasy, we can use anything already made before
- Detachment: from A and < A ⊃ B > we can make B
- Contrapositive:  $< A \supset B >$  is interchangeable with  $< ~B \supset ~A >$
- DeMorgan: < ~A ^ ~B > is interchangeable with ~<A v B >
- Switcheroo: < A v B > is interchangeable with  $< ~A \supset B >$