

**Séquent** : couple  $\Gamma \vdash F$

- $\Gamma$  ensemble de formules
- $F$  formule

contexte  
conclusion

Notation  $\Gamma \cup \{F\} \rightsquigarrow \Gamma, F$

$\rightarrow \Gamma, F \vdash F$  (ax)  $\Gamma \vdash F \rightarrow \Gamma, G \vdash F$  (aff)

$\Gamma, F \vdash G \rightarrow \Gamma \vdash F \Rightarrow G$  ( $\Rightarrow_i$ )  $\Gamma \vdash F \Rightarrow G, \Gamma \vdash F \rightarrow \Gamma \vdash G$  ( $\Rightarrow_e$ )

$\Gamma \vdash F, \Gamma \vdash G \rightarrow \Gamma \vdash F \wedge G$  ( $\wedge_i$ )  $\Gamma \vdash F \wedge G \rightarrow \Gamma \vdash F$  ( $\wedge_e^g$ )  $\Gamma \vdash F \wedge G \rightarrow \Gamma \vdash G$  ( $\wedge_e^d$ )

$\Gamma \vdash F \rightarrow \Gamma \vdash F \vee G$  ( $\vee_i^g$ )  $\Gamma \vdash G \rightarrow \Gamma \vdash F \vee G$  ( $\vee_i^d$ )

$\Gamma \vdash F \vee G, \Gamma, F \vdash H, \Gamma, G \vdash H \rightarrow \Gamma \vdash H$  ( $\vee_e$ )

$\Gamma, F \vdash \perp \rightarrow \Gamma \vdash \neg F$  ( $\neg_i$ )  $\Gamma \vdash \neg F, \Gamma \vdash F \rightarrow \Gamma \vdash \perp$  ( $\neg_e$ )  $\Gamma, \neg F \vdash \perp \rightarrow \Gamma \vdash F$  ( $\perp_c$ )

$\frac{}{\Gamma, F \vdash F}$  (ax)  $\frac{\Gamma \vdash F}{\Gamma, G \vdash F}$  (aff)

$\frac{\Gamma, F \vdash G}{\Gamma \vdash F \Rightarrow G}$  ( $\Rightarrow_i$ )  $\frac{\Gamma \vdash F \Rightarrow G \quad \Gamma \vdash F}{\Gamma \vdash G}$  ( $\Rightarrow_e$ )

$\frac{\Gamma \vdash F \quad \Gamma \vdash G}{\Gamma \vdash F \wedge G}$  ( $\wedge_i$ )  $\frac{\Gamma \vdash F \wedge G}{\Gamma \vdash F}$  ( $\wedge_e^g$ )  $\frac{\Gamma \vdash F \wedge G}{\Gamma \vdash G}$  ( $\wedge_e^d$ )

$\frac{\Gamma \vdash F}{\Gamma \vdash F \vee G}$  ( $\vee_i^g$ )  $\frac{\Gamma \vdash G}{\Gamma \vdash F \vee G}$  ( $\vee_i^d$ )

$\frac{\Gamma \vdash F \vee G \quad \Gamma, F \vdash H \quad \Gamma, G \vdash H}{\Gamma \vdash H}$  ( $\vee_e$ )

$\frac{\Gamma, F \vdash \perp}{\Gamma \vdash \neg F}$  ( $\neg_i$ )  $\frac{\Gamma \vdash \neg F \quad \Gamma \vdash F}{\Gamma \vdash \perp}$  ( $\neg_e$ )  $\frac{\Gamma, \neg F \vdash \perp}{\Gamma \vdash F}$  ( $\perp_c$ )