Le système DN_{prop}

$$\frac{}{\Delta, A \vdash A} \ (ax)$$

$$\frac{\Delta, A \vdash B}{\Delta \vdash A \to B} \ (\to i) \qquad \frac{\Delta \vdash A \qquad \Delta \vdash A \to B}{\Delta \vdash B} \ (\to e)$$

$$\frac{\Delta \vdash A \qquad \Delta \vdash B}{\Delta \vdash A \wedge B} \ (\wedge i) \qquad \frac{\Delta \vdash A \wedge B}{\Delta \vdash A} \ (\wedge e) \qquad \frac{\Delta \vdash A \wedge B}{\Delta \vdash B} \ (\wedge e)$$

$$\frac{\Delta \vdash A}{\Delta \vdash A \vee B} \ (\vee i) \qquad \frac{\Delta \vdash B}{\Delta \vdash A \vee B} \ (\vee i) \qquad \frac{\Delta \vdash A \vee B \qquad \Delta, A \vdash C \qquad \Delta, B \vdash C}{\Delta \vdash C} \ (\vee e)$$

$$\frac{\Delta, A \vdash B \qquad \Delta, A \vdash \neg B}{\Delta \vdash \neg A} \ (\neg i) \qquad \frac{\Delta \vdash A \qquad \Delta \vdash \neg A}{\Delta \vdash B} \ (\neg e) \qquad \frac{\Delta \vdash \neg\neg A}{\Delta \vdash A} \ (\neg e)$$

Le Système LK

$$\frac{}{A \vdash A} \ (ax)$$

$$\frac{\Delta, A, A \vdash \Gamma}{\Delta, A \vdash \Gamma} \ (\text{cont g}) \qquad \frac{\Delta \vdash \Gamma, A, A}{\Delta \vdash \Gamma, A} \ (\text{cont d}) \qquad \frac{\Delta \vdash \Gamma}{\Delta, A \vdash \Gamma} \ (\text{aff g}) \qquad \frac{\Delta \vdash \Gamma}{\Delta \vdash \Gamma, A} \ (\text{aff d})$$

$$\frac{\Delta \vdash \Gamma, A}{\Delta, \neg A \vdash \Gamma} \ (\neg \ g) \qquad \frac{\Delta, A \vdash \Gamma}{\Delta \vdash \Gamma, \neg A} \ (\neg \ d)$$

$$\frac{\Delta \vdash A, \Gamma \qquad \Pi, B \vdash \Lambda}{\Delta, \Pi, A \to B \vdash \Gamma, \Lambda} \ (\to \ g) \qquad \frac{\Delta, A \vdash B, \Gamma}{\Delta \vdash A \to B, \Gamma} \ (\to \ d)$$

$$\frac{\Delta, A, B \vdash \Gamma}{\Delta, A \wedge B \vdash \Gamma} \ (\wedge \ g) \qquad \frac{\Delta \vdash A, \Gamma \qquad \Pi \vdash B, \Lambda}{\Delta, \Pi \vdash A \wedge B, \Gamma, \Lambda} \ (\wedge \ d)$$

$$\frac{\Delta, A \vdash \Gamma \qquad \Pi, B \vdash \Lambda}{\Delta, \Pi, A \vee B \vdash \Gamma, \Lambda} \ (\vee g) \qquad \frac{\Delta \vdash A, \Gamma}{\Delta \vdash A \vee B, \Gamma} \ (\vee d) \qquad \frac{\Delta \vdash B, \Gamma}{\Delta \vdash A \vee B, \Gamma} \ (\vee d)$$

$$\frac{\Delta \vdash \Gamma, A \qquad A, \Pi \vdash \Lambda}{\Delta, \Pi \vdash \Gamma, \Lambda} \ (\text{coupure})$$

Le système $\mathcal{G}$

$$\frac{}{\Delta, A \vdash \Gamma, A} \ (ax)$$

$$\frac{\Delta \vdash \Gamma, A}{\Delta, \neg A \vdash \Gamma} \ (\neg \ g) \qquad \frac{\Delta, A \vdash \Gamma}{\Delta \vdash \Gamma, \neg A} \ (\neg \ d)$$

$$\frac{\Delta \vdash A, \Gamma \quad \Delta, B \vdash \Gamma}{\Delta, A \to B \vdash \Gamma} \ (\to \ g) \qquad \frac{\Delta, A \vdash B, \Gamma}{\Delta \vdash A \to B, \Gamma} \ (\to \ d)$$

$$\frac{\Delta, A, B \vdash \Gamma}{\Delta, A \wedge B \vdash \Gamma} \ (\wedge \ g) \qquad \frac{\Delta \vdash A, \Gamma \quad \Delta \vdash B, \Gamma}{\Delta \vdash A \wedge B, \Gamma} \ (\wedge \ d)$$

$$\frac{\Delta, A \vdash \Gamma \quad \Delta, B \vdash \Gamma}{\Delta, A \vee B \vdash \Gamma} \ (\vee g) \qquad \frac{\Delta \vdash A, B, \Gamma}{\Delta \vdash A \vee B, \Gamma} \ (\vee d)$$

$$\frac{\Delta \vdash \Gamma, A \quad A, \Delta \vdash \Gamma}{\Delta \vdash \Gamma} \ (\text{coupure})$$