$$\frac{F \cap G}{F \cap G} \wedge i \qquad \frac{F \wedge G}{G} \wedge e_1 \qquad \frac{F \wedge G}{F} \wedge e_2$$

$$\frac{F}{\neg \neg F} \neg \neg i \qquad \frac{\neg \neg F}{F} \neg \neg e$$

$$\frac{F \cap G}{\neg G} \text{ modus ponens} \qquad \frac{F \rightarrow G}{\neg F} \neg G \text{ modus tollens}$$

$$F \mid \vdots \qquad F \vee G \qquad F \mid \vdots \qquad \vdots \qquad H$$

$$F \cap G \mid \vdots \qquad \vdots \qquad H$$

$$F \cap G \mid \vdots \qquad \vdots \qquad H$$

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Table 1: Natural Deduction Rules