

nome	regola	invertibilità	esempio
$\wedge_i$	$\frac{F_1 \quad F_2}{F_1 \wedge F_2}$	$\Leftrightarrow$	$\frac{A \wedge B \quad \frac{[B]}{B} (\wedge_e) \quad \frac{A \wedge B \quad [A]}{A} (\wedge_e)}{B \wedge A} (\wedge_i)$
$\wedge_e$	$\frac{\begin{array}{c} [F_1][F_2] \\ \vdots \\ F_1 \wedge F_2 \quad F_3 \end{array}}{F_3}$	$\llbracket F_1 \wedge F_2 \rrbracket^v = 1$	$\frac{A \wedge B \quad \frac{[B]}{B \wedge A} (\wedge_i) \quad [A]}{B \wedge A} (\wedge_e)$
$\wedge_{e1}$	$\frac{F_1 \wedge F_2}{F_1}$	$\not\Leftrightarrow$	$\frac{A \wedge B \vdash A}{A} (\wedge_{e1})$
$\wedge_{e2}$	$\frac{F_1 \wedge F_2}{F_2}$	$\not\Leftrightarrow$	$\frac{A \wedge B \vdash B}{B} (\wedge_{e2})$
$\vee_{i1}$	$\frac{F_1}{F_1 \vee F_2}$	$\not\Leftrightarrow$	$\frac{A \wedge B \vdash B \vee A \quad \frac{[B]}{B \vee A} (\vee_{i1})}{B \vee A} (\wedge_e)$
$\vee_{i2}$	$\frac{F_2}{F_1 \vee F_2}$	$\not\Leftrightarrow$	$\frac{A \wedge B \vdash B \vee A \quad \frac{[A]}{B \vee A} (\vee_{i2})}{B \vee A} (\wedge_e)$
$\vee_e$	$\frac{\begin{array}{c} [F_1] \quad [F_1] \\ \vdots \quad \vdots \\ F_1 \vee F_2 \quad F_3 \quad F_3 \end{array}}{F_3}$	$\llbracket F_1 \vee F_2 \rrbracket^v = 1$	$\frac{A \vee B \vdash B \vee A \quad \frac{[A]}{B \vee A} (\vee_{i2}) \quad \frac{[B]}{B \vee A} (\vee_{i1})}{B \vee A} (\vee_e)$

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$\perp_e$	$\frac{\perp}{F}$	$\not\Rightarrow$	todo
$\top_i$	$\overline{\top}$	$\Leftrightarrow$	todo
$\Rightarrow_i$	$\frac{[F_1] \quad \vdots \quad F_2}{F_1 \Rightarrow F_2}$	$\Leftrightarrow$	todo
$\Rightarrow_e$	$\frac{F_1 \Rightarrow F_2 \quad F_1}{F_2}$	$\not\Rightarrow$	todo
$\neg_i$	$\frac{[F_1] \quad \vdots \quad \perp}{\neg F_1}$	$\Leftrightarrow$	todo
$\neg_e$	$\frac{\neg F_1 \quad F_1}{\perp}$	$\Leftrightarrow$	todo
$RAA$	$\frac{[\neg F] \quad \vdots \quad \perp}{F}$	$\Leftrightarrow$	$\frac{[\neg A] \quad \vdots \quad A \quad [\neg A]}{\perp} \begin{matrix} (\neg_e) \\ (RAA) \end{matrix}$
$EM$	$\frac{[A] \quad [\neg A] \quad \vdots \quad A \vee \neg A \quad \vdots \quad F \quad \vdots \quad F}{F} (\neg_e)$	$\Leftrightarrow$	todo

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$\forall_i$	$\frac{\begin{array}{c} \vdots \\ P[y/x] \end{array}}{\forall x.P} \quad y \notin FV(Foglie(:))$	$\Leftrightarrow$	todo
$\forall_e$	$\frac{\forall x.P}{P[t/x]}$	$\nrightarrow$	todo
$\exists_i$	$\frac{P[t/x]}{\exists x.P}$	$\nrightarrow$	todo
$\exists_e$	$\frac{\begin{array}{c} P[y/x] \\ \vdots \\ \exists x.P \\ C \end{array}}{C} \quad y \notin FV(C) \cup FV(Foglie(:))$	$\llbracket \exists x.P \rrbracket^{(A,I),\xi} = 1$	todo