# Laws of Form Reference

#### Axioms

$\overline{p} p  =$	(Position J1)
$\overline{\overline{pr}} \overline{qr}  = \overline{\overline{p}} \overline{q} $	(Transposition J2)

### Consequences

$ \overline{p}  = p$	(Reflexion C1)
$\overline{pq} q=\overline{p} q$	(Generation C2)
$\neg p = \neg$	(Integration C3)
$\overline{p}  q  p = p$	(Occultation C4)
p p = p	(Iteration C5)
$\overline{p}   \overline{q}   \overline{p}   \overline{q}   = p$	(Extension C6)
$\overline{\overline{p} q r}  = \overline{pr} \overline{\overline{q} r} $	(Echelon C7)
$\overline{p}   \overline{qx}   \overline{rx}   = \overline{p}   \overline{q}   \overline{r}   \overline{p}   \overline{x}  $	(Modified transposition C8)
$\overline{\overline{p r }}  \overline{\overline{q r }}  \overline{\overline{x r }}  \overline{\overline{y r }} = \overline{r pq }  \overline{rxy }$	(Crosstransposition C9)

## Corollaries

#### General theorems

$$\overline{p_1 r} \overline{p_2 r} \dots \overline{p_n r} = \overline{p_1} \overline{p_2} \dots \overline{p_n} r$$
 (J2\*)

$$\overline{p_1 r} \overline{p_2 r} \dots \overline{p_n r} = \overline{\overline{p_1} \overline{p_2} \dots \overline{p_n}} r$$
(J2.1\*)

$$\overline{\overline{p_n q} | \dots | p_2|} p_1 | q = \overline{\overline{p_n} | \dots | p_2|} p_1 | q \tag{C2*}$$

$$\overline{p} | \overline{q_1 x} | \overline{q_2 x} | \dots \overline{q_n x} | = \overline{p} | \overline{q_1} | \overline{q_2} | \dots \overline{q_n} | \overline{p} | \overline{x} |$$
(C8\*)

$$\overline{\overline{p_1|r|}} \overline{p_2|r|} \dots \overline{\overline{p_n|r|}} \overline{\overline{x_1|r|}} \overline{\overline{x_2|r|}} \dots \overline{\overline{x_m|r|}}$$

$$= \overline{r|p_1p_2 \dots p_n|} \overline{r x_1x_2 \dots x_m|}$$
(C9\*)

For all even  $n \geq 2$ :

$$\overline{\overline{p_n} | \dots | p_2|} p_1 = \overline{p_n} | p_{n-1} \dots p_3 p_1 | \dots \overline{p_4} | p_3 p_1 | \overline{p_2} | p_1$$
and
$$(C7.1*)$$

$$\boxed{\boxed{p_{n+1} \mid p_n \mid \dots \mid p_2 \mid p_1}}$$

$$= \overline{p_{n+1}p_{n-1}\dots p_3p_1} \overline{p_n} \overline{p_{n-1}\dots p_3p_1} \dots \overline{p_4} \overline{p_3p_1} \overline{p_2} \overline{p_1}$$
 (C7.2\*)