Hypothetical Judgement

To know $J_2(J_1)$ is to know J_2 under the circumstances that you know J_1 .

*The evidence for J2 is defined by induction (pattern matching) on the evidence for J1.

General Judgement To know $|_{\chi} J_{\chi}$ is to know $[m/_{\chi}]J$ for any expression M (of the correct arity),

To know m=>m' is to know that m' is the value* of m.

*open-ended

To know it type is to know that it is such that you know

- 1) what counts as a canonical verification *
- S) when two canonical verifications of 1's are equal.

* open-ended

To know MEA (presupposing

A type

A+1

is to know that M > M such that you know that M' is a canonica (verification of 1.

To know M=116 A (presupposing $A \Rightarrow A'$) $M \in A$ $M \Rightarrow M'$ 116 A = 116 A 116 A = 116

equal canonical verifications of 1.

is to know

- 1) | MEB (MEA),
- 2) Im MED (MEB),
- 3) Im, n M=ned (M=NeB), and
- 4) | M.N M=NEB (M=NEA)

Contexts & Sequents

explained by mutual induction

To know Γ ctx is to know that $\Gamma \Rightarrow ;$ or that $\Gamma \Rightarrow \Delta, x : \Lambda$ such that you know Δ ctx, $x \notin \Delta$, and $\Delta \gg \Lambda$ type.

if $\Gamma \Rightarrow \cdot$, immediate $|\Gamma \Rightarrow \Delta, y : A, \text{ to know that } \chi \neq y,$ and $\chi \neq \Delta$.

To know $\Gamma \gg \Delta$ type (presupposing $\Gamma \Rightarrow \Delta_3 x = B$ is to know,

if $\Gamma \Rightarrow \cdot$, that Δ type

 $|\Gamma \rightarrow \Delta, \pi: B$, that $|_{m} \Delta \gg [m/_{\pi}] \Delta$ type $(\Delta \gg m \in B)$

and $|_{M,N} \Delta \gg [M/x] A = [N/x] A type$ $(<math>\Delta \gg M = N \in B$)

is to know,

- (1) $|_{M}\Delta \gg [M/x]A = [M/x]B$ type $(\Delta \gg M \in C)$
- (2) $|_{M,N} \Delta \gg (M/x) \Delta = [n/x]Btype$ ($\Delta \gg M = N \in C$)

- (1) $I_n \Delta \gg [n/x]m \in [n/x]A (\Delta \gg n \in B)$
- (2) $l_{n,n} \Delta \gg (n/x) m = (n/x) m \in (n/x) A$ $(\Delta \gg 1 = 1/e)$

To know \(\text{\mathbb{P}} \mathbb{M} = Med\) \(\begin{picture}
\text{\mathbb{C}} & \text{\mathbb{C}} & \text{\mathbb{C}} \\
\text{\mathbb{C}} & \text{\mathbb{M}} & \text{\mathbb{C}} \\
\text{\mathbb{N}} & \text{\mathbb{M}} & \text{\mathbb{M}} \\
\text{\mathbb{M}} & \text{\mathbb{M}} & \text{\mathbb{M}} \\
\text{\mathbb{M}} & \text{\mathbb{M}} & \text{\mathbb{M}} & \text{\mathbb{M}} \\
\text{\mathbb{M}} & \text{\mathbb{M}} & \text{\mathbb{M}} & \text{\mathbb{M}} \\
\text{\mathbb{M}} & \text{\mathbb{M}} & \text{\mathbb{M}} & \text{\mathbb{M}} & \text{\mathbb{M}} \\
\text{\mathbb{M}} & \text{\mathbb{M}} & \text{\mathbb{M}} & \text{\mathbb{M}} & \text{\mathbb{M}} & \text{\mathbb{M}} \\
\text{\mathbb{M}} & \text{\mathbb{

if $\Gamma \Rightarrow '$, that M = Med $|\Gamma \Rightarrow \Delta, x : B$, that

- (1) $\int_{0}^{\infty} \Delta \gg [0/x] M = [0/x] M \in [0/x] A$ $(\Delta \gg 0 \in B)$
- (2) $l_{0,0'} \Delta \gg col_{1}M = col_{1}M + col_{2}A$ $(\Delta \gg 0 = 0 + B)$