$vars$, n, a, x, y, z, w, m, o
$ivar$, i, k, j, l
$const$, b

$X,\ Y,\ Z$	::=		
	|	I	Unit
	|	$X \trianglerighteq Y$	Associative Non-commutative tensor
	|	$X \rightharpoonup Y$	Implication
	|	$\mathsf{F}\, A$	Right adjoint

$A,\ B,\ C$	::=		
	|	J	Unit
	|	$A \triangleright B$	Non-associative Non-commutative tensor
	|	$A \rightharpoonup B$	Implication
	|	$\mathsf{G}\, X$	Right adjoint

Γ	::=	
	|	.
	|	A
	|	Γ_1, Γ_2
	|	(Γ)
	|	Γ

Δ	::=	
	|	.
	|	X
	|	Δ_1, Δ_2
	|	(Δ)
	|	Δ

$\boxed{\Delta \vdash_{\mathcal{A}} X}$

$$\frac{}{X \vdash_{\mathcal{A}} X}\ \text{A\_VAR}$$

$$\frac{}{. \vdash_{\mathcal{A}} I}\ \text{A\_IR}$$

$$\frac{\Delta \vdash_{\mathcal{A}} X}{\Delta, I \vdash_{\mathcal{A}} X}\ \text{A\_IL}$$

$$\frac{\Delta_1 \vdash_{\mathcal{A}} X \quad \Delta_2 \vdash_{\mathcal{A}} Y}{\Delta_1, \Delta_2 \vdash_{\mathcal{A}} X \trianglerighteq Y}\ \text{A\_TR}$$

$$\frac{X, Y \vdash_{\mathcal{A}} Z}{X \trianglerighteq Y \vdash_{\mathcal{A}} Z}\ \text{A\_TL}$$

$$\frac{\Delta, X \vdash_{\mathcal{A}} Y}{\Delta \vdash_{\mathcal{A}} X \rightharpoonup Y}\ \text{A\_IRR}$$

$$\frac{\Delta_1 \vdash_{\mathcal{A}} X \quad \Delta_2, Y \vdash_{\mathcal{A}} Z}{\Delta_1, \Delta_2, X \rightharpoonup Y \vdash_{\mathcal{A}} Z}\ \text{A\_IRL}$$

$$\frac{\Delta_1 \vdash_{\mathcal{A}} X \quad \Delta_2, X \vdash_{\mathcal{A}} Y}{\Delta_1, \Delta_2 \vdash_{\mathcal{A}} Y}\ \text{A\_CUT}$$

$$\frac{\Delta, X, Y \vdash_{\mathcal{A}} Z \quad \Delta \neq \emptyset}{\Delta, X \trianglerighteq Y \vdash_{\mathcal{A}} Z}\ \text{A\_ASSOCL}$$

$$\frac{X, Y, \Delta \vdash_{\mathcal{A}} Z \quad \Delta \neq \emptyset}{X \trianglerighteq Y, \Delta \vdash_{\mathcal{A}} Z} \quad \text{A\_Assocr}$$

$$\frac{\Delta; . \vdash_{\mathcal{L}} A}{\Delta \vdash_{\mathcal{A}} \mathsf{F}\, A} \quad \text{A\_Fr}$$

$\boxed{\Delta; \Gamma \vdash_{\mathcal{L}} A}$

$$\frac{}{.; A \vdash_{\mathcal{L}} A} \quad \text{L\_var}$$

$$\frac{}{.; . \vdash_{\mathcal{L}} J} \quad \text{L\_Jr}$$

$$\frac{\Delta; \Gamma \vdash_{\mathcal{L}} A}{\Delta; \Gamma, J \vdash_{\mathcal{L}} A} \quad \text{L\_Jl}$$

$$\frac{\Delta; \Gamma \vdash_{\mathcal{L}} A}{\Delta, I; \Gamma \vdash_{\mathcal{L}} A} \quad \text{L\_Il}$$

$$\frac{\Delta_1; \Gamma_1 \vdash_{\mathcal{L}} A \quad \Delta_2; \Gamma_2 \vdash_{\mathcal{L}} B}{\Delta_1, \Delta_2; \Gamma_1, \Gamma_2 \vdash_{\mathcal{L}} A \rhd B} \quad \text{L\_Tr}$$

$$\frac{\Delta; A, B \vdash_{\mathcal{L}} C}{\Delta; A \rhd B \vdash_{\mathcal{L}} C} \quad \text{L\_Tl}$$

$$\frac{X, Y; \Gamma \vdash_{\mathcal{L}} C}{X \trianglerighteq Y; \Gamma \vdash_{\mathcal{L}} C} \quad \text{L\_ATl}$$

$$\frac{\Delta, X, Y; \Gamma \vdash_{\mathcal{L}} A \quad \Delta \neq \emptyset}{\Delta, X \trianglerighteq Y; \Gamma \vdash_{\mathcal{L}} A} \quad \text{L\_Assocl}$$

$$\frac{X, Y, \Delta; \Gamma \vdash_{\mathcal{L}} A \quad \Delta \neq \emptyset}{X \trianglerighteq Y, \Delta; \Gamma \vdash_{\mathcal{L}} A} \quad \text{L\_Assocr}$$

$$\frac{\Delta; \Gamma, A \vdash_{\mathcal{L}} B}{\Delta; \Gamma \vdash_{\mathcal{L}} A \rightharpoonup B} \quad \text{L\_IRr}$$

$$\frac{\Delta_1; \Gamma_1 \vdash_{\mathcal{L}} A \quad \Delta_2; \Gamma_2, B \vdash_{\mathcal{L}} C}{\Delta_1, \Delta_2; \Gamma_1, \Gamma_2, A \rightharpoonup B \vdash_{\mathcal{L}} C} \quad \text{L\_IRl}$$

$$\frac{\Delta_1 \vdash_{\mathcal{A}} X \quad \Delta_2, Y; \Gamma \vdash_{\mathcal{L}} A}{\Delta_1, \Delta_2, X \rightharpoonup Y; \Gamma \vdash_{\mathcal{L}} A} \quad \text{L\_AIRl}$$

$$\frac{\Delta_1 \vdash_{\mathcal{A}} X \quad \Delta_2, X; \Gamma \vdash_{\mathcal{L}} A}{\Delta_1, \Delta_2; \Gamma \vdash_{\mathcal{L}} A} \quad \text{L\_ACut}$$

$$\frac{\Delta_1; \Gamma_1 \vdash_{\mathcal{L}} A \quad \Delta_2; \Gamma_2, A \vdash_{\mathcal{L}} B}{\Delta_1, \Delta_2; \Gamma_1, \Gamma_2 \vdash_{\mathcal{L}} B} \quad \text{L\_Cut}$$

$$\frac{\Delta \vdash_{\mathcal{A}} X}{\Delta; . \vdash_{\mathcal{L}} \mathsf{G}\, X} \quad \text{L\_Gr}$$

$$\frac{\Delta, X; \Gamma \vdash_{\mathcal{L}} A}{\Delta; \Gamma, \mathsf{G}\, X \vdash_{\mathcal{L}} A} \quad \text{L\_Gl}$$

$$\frac{\Delta; \Gamma, A \vdash_{\mathcal{L}} B}{\Delta, \mathsf{F}\, A; \Gamma \vdash_{\mathcal{L}} B} \quad \text{L\_Fl}$$

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Definition rules:         28 good    0 bad
Definition rule clauses:  52 good    0 bad
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