Page	Expression	Name	Say	Meaning
5	$\mathcal{P}$	Script P	Proposition	Something to be proved
5	$\mathcal{P}(a)$	Script P of a	Proposition about tree a	Something to be proved about AST a
5	$\mathcal{O}$	Script O	Operator	An operator that can be used in an AST
5	$\mathcal{O}(a)$	Script O of a	Operator of arity a	An operator of a given arity
5	$\mathcal{X}_s$	Script X sub s	Variables x of sort s	Variables x of sort s
5	S	S	A set of sorts	A set of sorts
5	$\{X_s\}_{s\in\mathcal{S}}$	Family	Family X of s	a sort-indexed family of disjoint finite sets X_s of variables x of sort s
6	$[b/x]\,a$	Substitution	Substitute b for x in a	Substitute b for x in a
7	$x_1, ..., x_n.a$	Abstractor	Bind variables x_n to expression a	Bind variables x_n to expression a
8	$\overrightarrow{x}$	X arrow	List of xs	$x_1, ..., x_n$
8	$\rho : \overrightarrow{x} \leftrightarrow \overrightarrow{x}'$	Fresh renaming	Freshen x using renaming ρ	A bijection between $\overrightarrow{x}$ and $\overrightarrow{x}'$ where $\overrightarrow{x}'$ is fresh.
8	$\widehat{\rho}_i(a_i)$	Rho hat sub i	Rename result	The result of applying the renaming ρ_i to a_i
8	$x =_\alpha y$	Equal alpha	α-*equivalence*	Trees x and y equal up to renaming
9	$x \stackrel{\Delta}{=} y$	Delta equals	Definitially equals	Trees x and y are definitionally equal