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Acronyms

BST	39	MLSSPF	29
HF	10	MLSU	29
HTP	53	MLSuC	30
MLS	29	MLSuC ⁺	30
MLSC	29	NP	41
MLSS	29	SAT	41
MLSSI	29	3-SAT	41
MLSP	29	ZFC	3
MLSSP	29		

Operators and Common Symbols

\mapsto , symbol for injective function	4	$\Sigma_{\mathcal{F}}^{\mathcal{P}}$, a Venn \mathcal{P} -partition induced by \mathcal{F}	16
\mapsto , symbol for partial function	4	$\Sigma_M^{\mathcal{V}}$, Venn partition induced by M	30
Y^X , set of all functions from X into Y	4	$\Sigma_M^{\mathcal{T}}$, transitive Venn partition of M	31
$f[S]$, multi-image	4	$\Sigma_M^{\mathcal{P}}$, a Venn \mathcal{P} -partition induced by M	31
$\text{dom}(f)$, domain of f	4	$(\Pi_{\mu})_{\mu \leq \xi}$, formative process	76
$\text{ran}(f)$, range of f	4	\mathcal{T} , target function	72
$f \circ g$, function composition	4	$\langle (\Pi_{\mu})_{\mu \leq \xi}, (\bullet), \mathcal{T} \rangle$, Π -process	77
ι_X , identity function on X	4	$\langle (\Pi_{\mu})_{\mu \leq \xi}, (\bullet), \mathcal{T}, \mathcal{R} \rangle$, a colored Π -process	77
$\langle s, t \rangle$, ordered pair	4	$\text{EA}(B, q)$, edge-activation map	85
$\mathcal{P}(T)$, powerset of T	4	$\text{GE}(A)$, grand-event map	84
$\mathcal{P}^*(S)$, intersecting powerset of S	17	$\text{leastInf}(B)$, leastInf map	85
$\bigcup T$, union set of T	4	$\langle \mathcal{D}, \eta, q_0, \mathbb{P} \rangle$, pumping chain	124
$\bigsqcup T$, disjoint union set of T	4	$\{\text{Minus}(\hat{q}^{[\mu]})\}_{\mu \leq \hat{\xi}}$, Minus sequence	133
$\bigcap T$, intersection set of T	4	$\{\text{Surplus}(\hat{q}^{[\mu]})\}_{\mu \leq \hat{\xi}}$, Surplus sequence	133
$\mathcal{P}[\bullet]$, multi-powerset operator	6	Σ , partition	13
$\bigcup[\bullet]$, multi-union-set operator	6	σ^* , external or special block	13
\times , (ordered) Cartesian product	24	\mathcal{S} , theory \mathcal{S}	22
\otimes , unordered Cartesian product	24	\mathfrak{F} , generic subtheory of \mathcal{S}	45
On , class of all ordinals	8	$r_{\mathfrak{F}}$, rank-bound map for \mathfrak{F}	30
ω , first infinite limit ordinal	9	$g_{\mathfrak{F}}$, rank dichotomy map for \mathfrak{F}	54
$ S $, cardinality of S	8	$h_{\mathfrak{F}}$, strong rank dichotomy map for \mathfrak{F}	54
$ \Phi $, size or length of Φ	23	M , set assignment	23
\aleph_0 , first infinite cardinal	9	M_{\emptyset} , null set assignment	40
$(Y_{\mu})_{\mu < \xi}$, a ξ -sequence	9	\mathcal{J} , partition assignment	31
\mathcal{V} , von Neumann universe	9	$M_{\mathcal{J}}$, set assignment induced by \mathcal{J}	31
\mathcal{V}_{α} , α -th layer of von Neumann universe	9	$\bar{\beta}$, image-map related to β	32
$\text{rk } S$, rank of S	10	\emptyset^n , nesting notation	9
\emptyset^n , nesting notation	9	\mathfrak{h} , a hereditarily finite set	47
$\text{TrCl}(S)$, transitive closure of S	12	ς , synchronization map	87
$\Sigma_{\mathcal{F}}^{\mathcal{V}}$, Venn partition induced by \mathcal{F}	15	ϱ , threshold	98
$\Sigma_{\mathcal{F}}^{\mathcal{T}}$, transitive Venn partition of \mathcal{F}	16	\mathfrak{v} , propositional valuation	43

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