CATALOGUE OF NOTATION

Relations

$x \in A$	set membership	6
$\in_{\mathbf{A}}$	membership of subsets of A	103
$\in \uparrow A$	membership restricted to A	307
$g \in f$	membership for subobjects in Set	316
E_{ε}	membership for set-objects in &	327
$A \subseteq B$	set inclusion	8
$f \subseteq g$	subobject inclusion	76
$r \subseteq s$	inclusion for relations	322
≤	'is less than or equal to'	29
6	ordering of truth-values	137, 139
$a \leq b$	restriction-ordering on sheaves	390
a∑b	compatibility	390
$s \leq t$	<i>negative</i> \leq -ordering of the	429
	continuum	
$r \leq c, c \leq r$	$positive \leq -ordering$	431
r < s	ordering of R	435
	partial-ordering	29
	antireflexive \Box -ordering	72
p≺q	'close to'	383
≉	apartness	425
$a \cong b$	isomorphic objects	41
$\mathscr{C} \cong \mathfrak{D}$	isomorphic categories	200
$\mathscr{C}\simeq \mathscr{D}$	equivalent categories	200
$f \simeq g$	isomorphic subobjects	77
$r \simeq s$	equality of transitive set-objects	325
$\simeq_{\mathscr{C}}$	equality of set-objects	326
R^{-1}	inverse relation	45
R_{f}	kernel	66, 111
Δ	diagonal	236
$F\dashv G$	left adjoint	439
$G \vdash F$	right adjoint	439

Objects (elements, sets, structured sets, algebras, spaces)

$\{x:\varphi(x)\}$	set determined by property	7
$A \cap B$	intersection of sets	7
$f \cap g$	intersection of subobjects	147