Glossary of Symbols

$B(x, r)$	ball of radius $r > 0$ centered at x	2
∂	boundary	37
C	generic notation for a category	3
C^{op}	opposite category of C	6
CG	category of compactly generated spaces together with continuous maps	111
CGWH	category of compactly generated weakly Hausdorff spaces together with continuous maps; a convenient category of spaces	111
CH	category of compact Hausdorff spaces together with continuous maps	99
$\mathbb{C}$	complex numbers	22
CX	the (reduced) cone of a (pointed) space X	124
D^n	closed unit ball in $\mathbb{R}^n$	3
$\varnothing$	the empty set	1
$\twoheadrightarrow$	an epimorphism	14
$\mathbf{k}$	generic notation for a field	5
Fld	category of fields	16
Grp	category of groups	5
$\hat{f}$	shorthand for the adjunct of a map f in some adjunction	92
$\simeq$	homotopy	34
hTop	homotopy category of spaces	5
hTop_*	homotopy category of pointed spaces	121
$\mathbb{Z}$	integers: $\ldots, -2, -1, 0, 1, 2, \ldots$	22
$L \dashv R$	generic notation indicating that the functors L and R form an adjunction	92
l_p	for $1 \leq p \leq \infty$, the normed vector space of ($\mathbb{R}$-valued) sequences which converge in the p-norm	23
M_f	mapping cylinder of f	130
$\rightarrowtail$	a monomorphism	14