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Symbols

X, Y, \dots	Banach spaces
$\mathfrak{A}, \mathfrak{B}, \dots$	Banach algebras
X^*	dual space of X
X_*	predual space of X
$X_{\mathbb{R}}$	complex Banach space X considered as a real space
$J^\#$	cf. Remark I.1.13
X^\sharp	cf. Definition IV.3.8
X_s	the complementary L -summand of an L -embedded space X
J^θ	metric complement of J
Y^\perp	annihilator of subspace $Y \subset X$
Y_\perp	elements being annihilated by $Y \subset X^*$
J_D	M -ideal of continuous functions vanishing on the set D
$X \cong Y$	X is isometric to Y
$X \simeq Y$	X is isomorphic to Y
$d(X, Y)$	Banach-Mazur distance between X and Y
B_X	closed unit ball of X
S_X	unit sphere of X
$B_X(x, r)$	$\{y \in X \mid \ y - x\ \leq r\}$
i_X	natural embedding of X into X^{**}
π_{X^*}	natural projection from X^{***} onto X^*
$P_J(x)$	set of best approximations to x from J
$\ T\ _e$	essential norm of T
\mathbb{K}	\mathbb{R} or \mathbb{C}
\mathbb{T}	complex numbers of modulus 1
\mathbb{D}	open unit disk in the complex plane
\mathbb{S}	$\{z \in \mathbb{K} \mid z = 1\}$

A	disk algebra
H^p, H_0^p	Hardy spaces
h_M, ℓ_M	Orlicz sequence spaces
H_M, L_M	Orlicz function spaces
$\Lambda(N), \widetilde{\Lambda}(N)$	cf. Section VI.6
$d(w, 1)$	Lorentz sequence space
$L^{p,1}, L^{p,\infty}$	Lorentz function spaces
$\ell^p(n)$	n -dimensional ℓ^p -space
$\ell^p(X)$	vector valued ℓ^p -space
$L^0(\mu)$	space of (equivalence classes of) measurable functions
L_Λ^1, M_Λ	space of Λ -spectral L^1 -functions resp. measures
$C_0(S)$	space of continuous functions on S vanishing at infinity
$C(S)$	space of continuous functions on S (S compact Hausdorff)
$M(S)$	space of regular Borel measures on S
$\text{Mult}(X)$	multiplier algebra of X
$Z(X)$	centralizer of X
$\text{Cun}(X)$	Cunningham algebra of X
$\text{Mult}_{\text{inn}}(\mathfrak{A})$	inner elements of $\text{Mult}(\mathfrak{A})$
$Z_{\text{inn}}(\mathfrak{A})$	inner elements of $Z(\mathfrak{A})$
$a_T(\cdot)$	symbol of $T \in \text{Mult}(X)$
\overline{M}^{w*}	weak* closure of M
\overline{M}^w	weak closure of M
$\text{int } M$	interior of M
$\text{ex } M$	extreme points of M
$\text{sexp } M$	strongly exposed points of M
$\text{co } M$	convex hull of M
$\text{lin } M$	linear hull of M
E_X	$\text{ex } B_{X^*}/\sim$ where $p \sim q$ if they are linearly dependent
Z_X	$\overline{\text{ex}}^{w*} B_{X^*} \setminus \{0\}$
$\ker T$	kernel of an operator T
$\text{ran } T$	range of an operator T
$L(X, Y)$	space of bounded operators from X to Y
$K(X, Y)$	space of compact operators from X to Y
$K_{w^*}(X^*, Y)$	space of weak*-weakly continuous compact operators from X^* to Y
$A(X, Y)$	space of approximable operators (i.e. norm limits of finite rank operators) from X to Y
$F(X, Y)$	space of finite rank operators from X to Y
$N(X, Y)$	space of nuclear operators from X to Y
$L(X, \dots)$	corresponding space of operators from X to X
$X \widehat{\otimes}_\varepsilon Y$	completed injective tensor product
$X \widehat{\otimes}_\pi Y$	completed projective tensor product

$X \oplus_1 Y$	direct sum of X and Y equipped with the sum-norm
$X \oplus_p Y$	direct sum of X and Y equipped with the ℓ^p -norm
$X \oplus_\infty Y$	direct sum of X and Y equipped with the max-norm
$\sigma(X, J^*)$	cf. Remark I.1.13
s_{op}	strong operator topology
w_{op}	weak operator topology
$\mathbb{H}(\mathfrak{A})$	hermitian elements of \mathfrak{A}
e	unit of a unital Banach algebra
L_a, R_a	multiplication operator $x \mapsto ax$ resp. $x \mapsto xa$
M_a	multiplication operator in the commutative case
$S_{\mathfrak{A}}$	state space of \mathfrak{A}
$M_{\mathfrak{A}}$	maximal ideal space of a function algebra \mathfrak{A}
$\mathfrak{A}_{\mathfrak{J}}$	cf. Proposition V.3.5
$\Pi(X)$	$\{(x^*, x) \in B_{X^*} \times B_X \mid x^*(x) = 1\}$
$V(T)$	spatial numerical range of $T \in L(X)$
$v(a, \mathfrak{A})$	numerical range of $a \in \mathfrak{A}$
Γ	dual group of a compact abelian group G
$\widehat{f}(\cdot)$	Fourier transform of $f \in L^1(G)$
φ_γ	character $f \mapsto \widehat{f}(\gamma)$ on $L^1(G)$
f_x	translate of $f \in L^1(G)$, $f_x(y) = f(xy)$
$\langle \cdot, \cdot \rangle$	natural duality
χ_A	indicator function of a set A
$\{f \leq a\}$	$\{x \mid f(x) \leq a\}$
$\complement A$	complement of A
$\text{dens } X$	density character of X
P/X	cf. Lemma I.1.15
d_μ	metric of convergence in measure
$d(x, Y)$	distance of $x \in X$ to $Y \subset X$
αL	one-point compactification of the locally compact space L
δ_x	Dirac measure

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