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- $*f^*$, the restricted biconjugate of the function f , 58
- $\mathcal{CLB}(E)$, the set of all convex functions that are Lipschitz on the bounded subsets of the Banach space E , 155
- $D(S)$, the domain of the multifunction S , 71
- $D_{E \setminus N}$, the distance from $E \setminus N$, 32
- $\partial k(x)$, the subdifferential of the function k at the point x , 41
- $\text{dgap}_f(X, Y)$, duality gap of f over $X \times Y$, 28
- D_N , the distance from N , 32
- D_Y , the distance from Y , 28
- $e(Z, Y)$, excess of Z over Y , 28
- E^* , the dual space of the Banach space E , 25
- E^{**} , the bidual of the Banach space E , 26
- f^* , the conjugate of the function f on a normed space, 42
- f^* , the conjugate of the function f with respect to a pairing, 44
- f^\circledast , the conjugate of the function f with respect to a symmetric pairing, 79
- F^\perp , the subspace of E^* orthogonal to the subspace F of the Banach space E , 111
- $G(S)$, the graph of the multifunction S , 71
- $G^{-1}(S)$, the inverse graph of the multifunction S , 71
- g_0 , if $b \in B$ then $g_0(b) = \frac{1}{2}\|b\|^2$, 89
- $H(S)$, a set determined by the positive linear map S , 184
- \mathbb{I} , the indicator function of the set \cdot , 54, 73
- ι , the canonical isometry from $E \times E^*$ into $E^{**} \times E^*$, 139
- J , the duality map on the Banach space E , 101
- \mathcal{NAS} , the negative alignment set of T with respect to b , 165
- N_C , the normality multifunction of the set C , 73
- $\text{neg } g$, the q -negative set determined by a certain convex function g , 81
- \ominus , 46

- $\mathcal{PC}(C)$, the set of proper convex functions on a convex set C , 20
- $\mathcal{PCLSC}(E)$, the set of all somewhere finite convex lower semicontinuous functions on the Banach space E , 60
- Φ_A , the convex function determined by a q -positive set A , 84
- φ_S , the Fitzpatrick function associated with a nontrivial monotone multifunction, S , 100
- π_1, π_2 , projection maps, 67
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