

Notation Index for

Wakker (2010) “Prospect Theory: for Risk and Ambiguity”

$\cup$: union of sets

$\cap$: intersection of sets

$\subset$: subset

$\supset$: superset

$\emptyset$: empty set; vacuous event

$\succsim$: p. 14 (weak) preference over prospects; p. 290 for events

$\precsim$: p. 14 reversed preference

$\succ$: p. 14 strict preference

$\prec$: p. 14 strict reversed preference

$\sim$: p. 14 equivalence or indifference

$\sim^t$: p. 108 t-indifference

$\sim_c^t$: p. 183, p. 295 t-indifference

$\sim_{cs}^t$: p. 262, p. 345 t-indifference

$\ominus$: p. 108, 107 tradeoff

$\sum_{j=1}^0 x_j$: p. 169 (= 0)

$\circ$: p. 411 (function composition)

$\alpha, \beta, \gamma, \delta$ (Greek letters): p. 13 outcomes (p. 14, 47: or constant/degenerate prospects)

$\alpha_E \beta$: p. 13, p. 298 binary prospect

α_{Ex} : p. 102 (changing one outcome)

α_{ERx} : p. 294, p. 345 (changing one outcome)

α_{ELx} : p. 345 (changing one outcome)

$\alpha_p \beta$: p. 47 binary prospect

θ : p. 78, p. 80 power/exponent parameter of utility

λ : p. 46 Lebesgue measure

λ : p. 239 loss aversion parameter

π : p. 170, p. 171, p. 283 (decision weight)

$\pi(E_j)$: p. 285 (decision weight of x_j)

π_j : p. 171, 284 (decision weight of x_j)
 $\pi(p_j)$: p. 171 (decision weight of x_j)
 $\pi(x_j)$: p. 171, p. 285 (decision weight of x_j)
 $\mathbb{R}$: p. 13 set of real numbers (is outcome set)
 ρ : p. 250 reference point
 ρ : p. 311 complete ranking
 $[A, B]$: p. 290 ($\{E: A \preceq E \preceq B\}$)
 $\mathcal{A}, \mathcal{B}$: p. 318 (sources)
 b_{rb} : p. 223 best-rank boundary
 B_{rb} : p. 290 best-rank boundary
 $E, E_1, E_j, F, A, B, C, D$ p. 13 events
 $(E_1:x_1, \dots, E_n:x_n)$: p. 13 prospect
 E_1x_1, E_2x_2, E_3x_3 : p. 13 prospect
 $E_1x_1 \cdots E_nx_n$: p. 13 prospect
 E^b : p. 285 $E^\emptyset$
 $E^c = S - E$: p. 13 complementary event (negation)
 E^G : p. 283, p. 343 (gain-)ranked event
 E_j : p. 13 (outcome event of outcome x_j)
 $E_j - E$: p. 103 (set-difference)
 E_L : p. 305, p. 343 loss-ranked event
 E^R : p. 283 (gain-)ranked event
 E^w : p. 285 E^{E^c}
 g : p. 253 gain-rank
 G : p. 283 gain-rank
 I : p. 238 (initial wealth)
 k : p. 253, p. 343 ($x_k \geq 0 \geq x_{k-1}$)
 ℓ : p. 219 loss rank
 L : p. 304, p. 343 loss rank
 P : p. 17, p. 100 (subjective) probability
 $(p_1:x_1, \dots, p_n:x_n)$: p. 47 prospect
 $p_1x_1, \dots, p_nx_n$: p. 47 (prospect)
 $p_1x_1 \cdots p_nx_n$: p. 47 (prospect)
 p^b : p. 171 p^0
 p_b : p. 222 p_{1-p}
 p^g : p. 253 (gain-)ranked probability

p_j : p. 45 (probability of outcome x_j); p. 19 (probability of event E_j)
 p_ℓ : p. 219 loss-ranked probability
 p_{ℓ} : p. 219 loss-ranked probability
 p^r : p. 170 (gain-)ranked probability
 $p^{\setminus r}$: p. 170 (gain-)ranked probability
 p^w : p. 171 p^{1-p}
 p_w : p. 222 p_0
 r : p. 170 (probability) rank
 R : p. 283 (event-)rank
 s : p. 12 state (of nature)
 S : p. 12 state space
 U : utility function –
 w : p. 169, p. 170 (probability) weighting function
 w^+ : p. 252, (probability) weighting function for gains
 w^- : p. 252, (probability) weighting function for losses
 W : p. 282-284, 170 (probability) weighting function
 W^+ : p. 342, p. 343, (probability) weighting function for gains
 W^- : p. 342, p. 343, (probability) weighting function for losses
 w_{rb} : p. 223 worst-rank boundary
 W_{rb} : p. 290 worst-rank boundary
 x, y (f,g,h, a,b,c,d): p. 13 prospects
 $(x_1, \dots, x_n)$: p. 14 prospect with events suppressed
 x^- : p. 254, p. 344 (loss-part of x)
 x^+ : p. 254, p. 344 (gain-part of x)
 x_i (roman letters with subscripts): p. 13 outcome of prospect x under event E_i
 $x_\lambda y$: p. 59 (probabilistic) mixture of prospect
 z : p. 220 dual weighting function
 Z : p. 304 dual weighting function