INDEX

absolutely summable sequence 1A, 31

additive set function 1E, 41
  indefinite 4E, 125
  locally bounded 4E, 124
  orthogonally scattered 4K, 143
  Φ-scattered 4K, 143
  (Φ,Δ)-closable 4K, 142

algebra of operators
  full 6A, 163
  semisimple 6A, 163

algebra of sets 1D, 38

atom, H^1-atom 3E, 95

Baire set 1D, 39

Banach space 1A, 30

bilinear
  function 1C, 34
  map 1C, 34

Bochner integrable function 5A, 145

Boolean
  algebra of projections 6A, 162
  quasialgebra of projections 6A, 162

Borel set 1D, 39

bounded set 1A, 29

Cauchy sequence 1A, 30

closable
  additive set function 4K, 142
  maps collectively 3D, 92
  spectral set function 6C, 166

collectively closable maps 3D, 92

compact paving 1F, 44

complementary Young function 1G, 48

complete space 1A, 30

conditionally summable sequence 1A, 30

convergent sequence 1A, 30

$\mathcal{C}$-regular set function 1F, 46

Daniell integral 3B, 83

dense set 1A, 30

direct product of gauges 5C, 150

directed set of partitions 1D, 40

dual space 1B, 32

evolution 7A, 182

Feynman-Kac
  functional 7B, 186
  formula 0D, 15; 7B, 186

fine (ι-fine) set of partitions 4B, 113

Fubini theorem 5E, 156

full algebra of operators 6A, 163

function, functional
  bilinear 1C, 34
  Bochner integrable 5A, 145
  Feynman-Kac 7B, 186
  integrable 2A, 51
  $\mathcal{K}$-simple 1D, 37
  $(\mathcal{K},E)$-simple 1D, 37
  linear 1B, 32
  of bounded mean oscillation 3E, 97
  P-null 6C, 166
  positive linear 2E, 61
  $\mathcal{S}$-measurable 1D, 39
  set f. 1E, 40
  ρ-null 2B, 54; 5A, 146

function norm 3C, 86

gauge 2A, 51
  integrating 2D, 58
  integrating for ... 3A, 77
  monotonic 2G, 67
  regular 2J, 72
  very sub-additive 2J, 71

Gelfand transform 6A, 162

Hardy space 3E, 94

indeficient additive set function 4E, 125

integrable function 2A, 51

integrating gauge 2D, 58

König continuity condition 3B, 84

$\mathcal{K}$-simple function 1D, 37

$(\mathcal{K},E)$-simple function 1D, 37

Lebesgue property 2G, 69

Leinert continuity condition 3B, 84

Levi theorem 2C, 56

linear
  function, functional 1B, 32
  map 1B, 32

locally bounded additive set function 4E, 124

L^p-space 3C, 85

Luxemburg
  norm 3C, 91; 4J, 141
  seminorm 3C, 91

map
  additive 1E, 41
  bilinear 1C, 34
  collectively closable m.-s 3D, 92
  linear 1B, 32
  multiplicative 6A, 161

measure 3B, 82
  spectral 6A, 162
  Wiener 4H, 137; 7D, 194

mesh, ι-mesh 4B, 112

monotonic gauge 2G, 67

multiplicative
  map 6A, 161
  paving 1D, 38

n-additive set function 1E, 40

nonsingular operator 6A, 163

nontrivial family of functions 1D, 37

norm 1A, 30
  function n. 3C, 86
  Luxemburg 3C, 91; 4J, 141
  Orlicz 3C, 91; 4J, 141

operator
  nonsingular 6A, 163
  scalar in Dunford's sense 6E, 172
  scalar in wider sense 6E, 171

Orlicz
  norm 3C, 91; 4J, 141
  seminorm 3C, 91
  space 3C, 91

Orlicz-Pettis lemma 1B, 33

orthogonally scattered additive set function 4K, 143

partition, $\mathcal{Q}$-partition 1D, 39

paving 1D, 37
  compact 1F, 44
  multiplicative 1D, 38

P-null
  function 6B, 166
  set 6B, 165

positive linear function 2E, 61

projective tensor product 1C, 36

propagator 7A, 182

p-variation of a set function 4A, 108

quasialgebra
  of projections, Boolean 6A, 162
  of sets 1D, 38

quasiring of sets 1D, 38

refinement of a partition 1D, 40

regular gauge 2J, 72

Riesz-Fischer property 3C, 86

ring of sets 1D, 38

scalar operator
- in Dunford's sense 6E, 172
- in wider sense 6E, 171

semialgebra of sets 1D, 38

semigroup 7A, 182

seminorm 1A, 29
- generated by a gauge 2A, 52
- integrating 2D, 58
- Luxemburg 3C, 91
- Orlicz 3C, 91

seminormed space 1A, 29

semiring of sets 1D, 38

sequence
- absolutely summable 1A, 31
- Cauchy 1A, 30
- conditionally summable 1A, 30
- convergent 1A, 30
- simply summable 1A, 30
- unconditionally summable 1A, 31

semisimple
- algebra of operators 6A, 163
- Boolean quasialgebra of projections 6E, 171

set
- Baire 1D, 39
- Borel 1D, 39
- bounded 1A, 29
- dense 1A, 30
- P-null 6B, 165
- ι-integrable 3B, 81
- ρ-null 2B, 54

set function 1E, 40
- additive 1E, 41
- $\mathcal{C}$-regular 1F, 46
- locally bounded 4E, 124
- n-additive 1E, 40
- spectral 6A, 162
- stable spectral 6D, 170

simply summable sequence 1A, 30

$\mathcal{S}$-measurable function 1D, 39

Sobolev space 3D, 94

space
- Banach 1A, 30
- complete 1A, 30
- dual 1B, 32
- Hardy 3E, 94

L^p 3C, 85
Orlicz 3C, 91
seminormed 1A, 29
Sobolev 3D, 94

spectral
measure 6A, 162
set function 6A, 162

stable spectral set function 6D, 170

Stone theorem 6G, 180

tensor product 1C, 35
projective 1C, 36

theorem
Fubini 5E, 156
Beppo Levi 2C, 56
Orlicz-Pettis 1B, 33
Stone 6G, 180
Tonelli 5F, 158

Tonelli theorem 5F, 158

unconditionally summable sequence 1A, 31

variation of a set function 3F, 99; 4A, 108

vector lattice 1D, 37

very sub-additive gauge 2J, 71

Wiener measure 4H, 137; 7D, 194

Young function 1G, 47
complementary 1G, 48

δ-ring of sets 1D, 38

ι-integrable set 3B, 81

ι-fine set of partitions 4B, 113

ι-measurable set 3B, 81

ι-mesh of a partition 4B, 112

ρ-integrable function 2A, 51

ρ-null
function 2B, 54; 5A, 146
set 2B, 54

Φ-scattered additive set function 4K, 143

Φ-variation of a set function 4A, 108

σ-algebra of sets 1D, 38

σ-ideal 1D, 38

σ-ring of sets 1D, 38