

Index

- C-measurable, 86
- C -set, 85
- $E \circ F$, 19
- E^T , 19
- E_A , 24
- $S_\infty \ltimes \mathbb{F}_\infty$, 237
- U -admissible, 133
- Δ , 19
- $\Delta(X)$, 19
- \mathbb{U} , 73
- $\mathbb{Z}\mathbb{U}$, 72
- \aleph_0 -categorical, 180
- \perp_A , 260
- \hat{E} , 32
- κ -stable, 255
- \mathcal{E} -bounded, 26
- \mathcal{E}_L , 25
- \mathcal{E}_R , 88
- $\mathcal{E}_{\mathcal{K}}$, 35
- \mathcal{U}_L , 24
- $C\mathcal{B}$, 29
- \ll , 4, 59
- \lll , 4
- $\mathbb{X}_{\bar{a}}, \mathcal{S}$, 247
- ω -homogeneous, 253
- $\tau_{C\mathcal{B}}$, 51
- \mathcal{F} , 22
- \emptyset -definable, 253
- cap_E , 166
- cap_α , 220
- cap_d , 221
- $\text{ent}_A(B)$, 221
- ent_E , 166
- ent_α , 220
- ent_d , 221
- affine isometries, 79
- almost transitive Banach space, 117
- almost transitive on pairs, 116
- analytic set, 63
- approximately oligomorphic, 69
- Arens–Eells norm, 188
- asymptotic dimension, 104
- atom, 187
- atomic, 253
- Baire measurable, 86
- Baire property, 85
- basis, 22
- bornologous, 44
- bounded geometry, 102
- bounded in left-uniformity, 36
- capacity, 166, 220
- centraliser, 141
- centre, 141
- close maps, 44
- coarse coupling, 203
- coarse embedding, 44
- coarse equivalence, 44
- coarse space, 21
- coarse structure, 20
- coarsely bounded group, 78
- coarsely bounded set, 26
- coarsely embedded subgroup, 47
- coarsely proper écart/metric, 49
- coarsely proper action, 53, 170
- coarsely proper map, 44
- cobounded action, 53
- cobounded set, 44
- cocompact action, 170

- cocycle, 141
- commensurator, 178
- compatible, 23
- compatible metric, 26
- composition, 19
- Corson–Klee Lemma, 57
- countably generated coarse structure, 38
- countably generated over neighbourhood, 27
- defect of map, 126
- diagonal, 19
- distorted, 106
- distortion element, 106
- écart, 21
- efficiently contractible, 210
- Effros–Borel space, 30
- entourage, 20
- entropy, 166, 220
- European topological group, 40
- expanding, 44
- FCC group, 89
- filter, 20
- finer coarse structure, 25
- finer uniformity, 25
- Fraïssé class, 257
- Fraïssé limit, 258
- fragmentation norm, 82
- functorial amalgamation, 265
- gauge, 168
- gauge metric, 169
- generate a coarse structure, 22
- generation by écarts, 21
- geodesic metric, 50
- greatest ambit, 207
- Gromov–Hausdorff distance, 202
- group-compact coarse structure, 35
- growth function, 222
- growth rates, 222
- Haagerup property, 112
- Hausdorff distance, 202
- ideal, 20
- integral Urysohn space, 72
- inverse limit, 93
- Kantorovich metric, 188
- large-scale geodesic, 55
- large-scale geodesic quasimetric space, 57
- left-coarse structure, 25
- left-invariant entourage, 24
- left-saturation, 32
- left-uniformity, 24
- length function, 66
- Lipschitz for large distances, 54
- locally bounded, 39
- locally finite metric space, 167
- locally finite structure, 258
- locally Roelcke precompact, 69
- maximal écart/metric, 59
- metrically amenable metric space, 224
- metrically amenable Polish group, 226
- metrically homogeneous, 70
- Milnor–Schwarz Lemma, 64
- minimal flow, 207
- modest action, 170
- modest map, 44
- molecule, 187
- monogenic coarse structure, 41
- monogenic topological group, 43
- net, 230
- non-Archimedean, 244
- non-spreading, 110
- oligomorphic, 179
- orbital independence relation, 260
- orbital type, 14, 245
- permutation group topology, 70, 244
- Polish group, vii
- power growth function, 66
- proper metric, 173
- proper net, 230
- property (FH), 112
- property (PL), 112
- proximal isometric action, 202
- pseudo-metric space, 21
- quantifier-free type, 253
- quasi-isometric écarts, 54
- quasi-isometric embedding, 54
- quasi-isometric spaces, 54
- quasi-isometry, 54
- quasi-isometry type, 5
- quasi-metric space, 54
- quasi-morphism, 126

Index

297

- regular tree, 72
relative type, 263
right-coarse structure, 88
Roelcke completion, 69
Roelcke pre-compact group, 69
Roelcke pre-compact set, 69
Roelcke uniformity, 68
semi-locally simply connected, 156
SIN group, 90
stable metric, 255
stable theory, 255
subbasis, 22
symmetric, 247
topological coupling, 185
transpose, 19, 247
type, 253
type \emptyset -definable, 253
ultrahomogeneous, 253
ultralocally bounded, 133
undistorted subgroup, 106
uniform space, 20
uniform structure, 20
uniformity, 20
uniformly continuous écart, 23
uniformly continuous map, 43
uniformly discrete, 230
uniformly locally finite Fraïssé class, 259
uniformly locally finite metric space, 167
universal minimal flow, 207
Urysohn metric space, 73
vertex transitive, 70
Vietoris–Rips complex, 189
weak topology, 42
well embedded, 99
word metric, 60
Zappa–Szép product, 77, 272