

Subject Index

- 0-definable 181
- a free for all 140
- $A \approx_q B$ 357
- \bar{A}^1 357
- A -automorphism 14
- A -definable 181
- α -model 238
- abnormal type 382
- absolute 91, 282
- acceptable class 235
- admits (K -strongly) regular types 250
 - prime models 188
 - stationary regular types 250
 - the pair of cardinals (κ, λ) 211
- affine 181
- Ahlbrandt 182
- \aleph_c -saturated 238
- \aleph_0 -categorical 6
- algebraic closure 17
 - geometry 35
 - group 96
 - independence 62
 - type 17
- algebraically closed field 39, 167
 - independent 17
- almost homogeneous 311
 - of modular type 182
 - orthogonal 143
 - –, two types 144
 - –, type and a set 153
 - over 100
 - satisfied 74, 101
 - strongly minimal 18, 182
 - true property 101
- α -type 12
- amalgamation property 11
- atomic 189
- atomistic 191
- AT**-strongly regular 244
- average type 120
- Baldwin 62, 79, 97, 240, 256
- Baldwin-Lachlan Theorem 310
- based 103, 130
 - , indiscernibles 130
 - , type on set 103, 174
 - on the type 294
- Basic Definability Theorem 15, 100
- basis 17
 - , Q_b 378
- Baur 30
- Berline 72
- β -configuration 379
- Beth's Theorem 55
- bidominance 153, 239
- bound of p 75
- bounded exponent 94
 - theory 5, 293
 - type 294
- Bouscaren 311, 314
- Buechler 117, 183, 253
- \bar{c} depends on B over A 38
- canonical base 173, 174, 175
 - –, global type 174
 - –, set of types 175
 - –, stationary type 174
 - K -regular resolution 278
- Cantor-Bendixson rank 158
- cardinality of T 9
- categorical in power 4
 - – – κ 16
- centralizer 93
- Chang-Makkai Theorem 62
- Cherlin 98, 182
- closed, in construction 206
 - subgroup 312
 - unbounded set 214

- cofinality 44
- coheir 65
- coherent 49
- commutator 168
- compact 13, 198
- compactness 9
- complete ϕ -type 55
 - type of \bar{a} over B 12
- completes 318
- completing an amalgam 318
- compulsion 237
- cone above a 342
- configuration 379
- Conjugacy Lemma 76
- connected group 96, 166
 - rank 161
- conservative extension 61
- constrained 361
- construction 195
- continuous 161
 - rank 161
- Coordinatization Theorem 181
- coordinatizes 181
- crosscutting equivalence relations 81
- Decomposition Theorem 264
- deep 5, 282, 352
- definability of types 58, 104, 130
- definable almost over 102
 - closure 173
 - extension 67
 - over 9, 100
- defines 58
- degree 159, 161
- (Δ, μ) -rank 159
- Δ -rank 159
- dependence, of types on types 293
 - relation 35
- depends 293
 - on the finite equivalence relation 101
- depth, of theory T 351
 - , – type p 351
- d -extension of p 63
- dimension 262
 - of a set of indiscernibles 129
- dimensional order property 4
- directed graph 283
- distinguished I -extensions 177
- divides 133
- division ring 97
- does not fork 72, 78
- domain of p 12
- dominates 153
- domination equivalent 153
- DOP 281, 316
- Ehrenfeucht 127
- Ehrenfeucht-Mostowski models 21
 - Theorem 22
- elementary submodel 10
- eni-depth 351
- ENI-dimensional order property 324
- ENI-DOP 281
- ENI-supportive 367
- ϵ -saturated 238
- equivalence of indiscernible sets 128
- equivalent 128
- eventual domination equivalence 155
- eventually nonisolated 306
- exchange axiom 35, 35, 40
- Existence and Extension Axioms 41
 - Axiom 198
- expanding equivalence relations 353
- extended basis 378
- Extension Lemma 73
- extra-stable 311
- $F_{\kappa(T)}^a$ -saturated 238
- finite character, dependence 35, 41
 - –, independence 35
 - –, nonorthogonality 139, 151
 - cover property 25
 - equivalence relation 100
- Finite Equivalence Relation Theorem 105
- finite inessential extension 18
 - simple groups 181
- First Continuity Property 194
- forking, local character 76, 108
- forks 72
- formula over 11
- frame 374
 - , theory 377
- free 38
 - K-amalgam 318
- full configuration, element 393
 - –, model 382
 - stable descending chain condition 92
- fully transitive 253
- Fundamental Order 64
 - Rank Inequality 182

- \mathcal{G} -conjugate 311
- \mathcal{G} -homogeneous 312
- Galois extension 167
- Garavaglia 30, 94
- Generalized Symmetry Lemma 40
- geometry 180
- germane pair 333
 - triple 333
- global multiplicity 87
- good 110
 - schema 63
- graph 283
- Grossberg 31
- group, in model theory 92
- \mathcal{M} by K 97
- Harnik 59, 78, 79
- Harrington 78
- Harrington-Makkai 302
- height, element 342
 - , type 373
- heir 65
- hereditary orthogonality 141
- Hodges 79
- homogeneous 13
- I-atomic 195
 - model 195
- I-construction 195
- I-formulas 193
- I-isolated 194
- I-minimal model 231
- I-prime 197, 236
- I-saturated 197
- ideal 50, 317
- imaginary elements 170
- implicitly divides 133
- independence, w.r.t. a partial order
 - 317, 342
 - property 90
- independent 49
 - , w.r.t. a partial order 51
 - families of models 317
- indiscernibles 118
- inessential extension 18
- infinity rank 161
- invariants sentence 29
- irrelevant 285
- isolated 189
 - types are dense 191
- joint embedding property 10
- K -dimensional order property 318
- K -minimal 348
 - type 237, 252
- K -NDOP 316, 318
- K -prime 235
- K -regular resolution 277
- K -representation 347
- K -strongly regular 242
- κ -depth 350
- κ -labeled tree 355
- κ -partially labeled tree 355
- κ -stable 19
- Kaufmann 117
- L-atomic 210
- L-formulas 209
- L-implied 209
- L-isolates 209
- Löwenheim-Skolem theorems 9
- Lachlan 99, 105, 177, 180, 182, 183, 310
- λ -compact 13, 198
- λ -homogeneous 13
- (λ, K) -tractable 331
- λ -saturated 13
- λ -universal 13
- language of T 9
- Lascar 62, 72, 79, 107, 132, 237, 240, 249, 295, 311, 314
 - rank 160
- Lascar-Poizat 78
- leaf 343
- left translate of p by a 163
- length 279
 - , of a resolution 279
- linearly disjoint 67
- local β -configuration 379
- Local Character of Freeness 42
- local rank 57, 159
- locally atomic 208
 - isolates 209
 - projective 183
- M -conjugate 311
- Macintyre 94
- main gap 3, 282
- Makkai 170, 176
- many-sorted languages 171
- Martin's conjecture 383
- mildly transitive 254
- minimal 19, 252
 - formula 17
- model complete 10

- modular 181
- Monk 30
- Monotonicity 35
 - Axioms 39
- monster model 14
- Morley 20, 54, 57, 99, 127, 180, 282
 - rank 53, 105, 159
 - ranks 38
 - sequence 52
- Morley's Theorem 24, 309
- Mostowski 127
- μ -ample 358
- (μ, K) -tractable 290
- multidimensional 6, 293
- multiplicity 87
- multiply ordered 90
- μ -quasi-isomorphic 357
- Myers 15
- NDOP 316, 346
- needs 78, 366
- n -inconsistent 132
- non-multidimensional 293
- normal formula 177
 - position 334
 - theories 272
 - tree 344
 - type 382
- normalization 176
- Normalization Lemma 178
- notion of freeness 38
- n -type over A 12
- ω -saturated 5
- ω -stable 4, 80
 - descending chain condition 92
- omitting types order property 6
- Open Mapping Theorem 77
- order indiscernibles 22, 118
 - property 68, 94
- orthogonal 138, 148
- orthogonality 139
 - , type and a set 148
 - of strong types 139
 - – two types 138
- over 12, 100
- p is free over A 38
- parallel 131
- persistently isolated 306
- ϕ -multiplicity 87, 108
- ϕ -rank 57
- ϕ -types 4, 55
- Pillay 72, 89, 180, 184, 249, 311, 314
- Pillay-Steinhorn 112
- Poizat 15, 62, 72, 79, 93, 107, 176
- positive Boolean combination 104, 130, 178
 - primitive 25
- precedes 343
- preschema 63
- presentable 325
- pre-weight 266
- primary 197
- prime 19, 188
 - model 188
- principal extension 18
 - type 12, 189
- product 269
 - of types 269
- pseudoplane 6, 183
- pure indiscernibles 120
- pure-injective 235
- quantifier eliminable 10
- quasi-finitely axiomatizable 182
- quasi-isomorphism 357
- quasi-totally transcendental 201
- Rabin-Scott-Ershov 176
- realized 12
- reference points 378
- refining equivalence relations 80
- Reflexivity 35
 - Axiom 42
- regular 242, 248
- relatively I-saturated 219
- represented 64
- Ressayre 62
- RK-order 237
- Rothmaler 79
- Rowbottom 62
- Rudin-Keisler 237
- Ryll-Nardzewski theorem 97
- Ryll-Nardzewski's Theorem 16
- S-model 238
- S-models 5, 238
- s -simple model 379
- Saffe 117, 298
- saturated 13, 198
- Second Continuity Property 194
- semi-regular 261
- Separation of Variables 55
- sequence of indiscernibles 118
- set of indiscernibles 119

- shallow 5, 281, 352
- Shelah 30, 31, 54, 57, 62, 72, 89, 107, 127, 132, 137, 170, 176, 237, 240, 249, 256, 291, 295, 302, 310
 - tree 84
- similar 393
- simple model 379
- Skolem expansion 21
 - language 21
 - theory 21
- small theory 111
- spectrum, bounded theory 309
 - function 2
- Srour 184
- stabilizer 166, 173
- stable 3, 19, 59, 80
 - , incomplete theory 94
 - descending chain condition 92
 - group 92
 - in μ 80
 - system 345
- standard 300
 - class 300
 - triangle 300
- stationary 43, 103
 - , in M^{eq} 173
 - and strongly regular 242
 - inside 103
 - over 43
 - set 214
- Steinitz theorem 4
- Stone representation theorem 11
- Stone Space 12
- stratified order 164
- stratum 164
- strict order property 90
- strictly I-prime 198
 - minimal 180
 - stable 80
 - superstable 80
- s-trite model 379
- strong A -automorphism 113
 - elementary submodel 219
- Strong Extension Property 47
- strong Martin conjecture 383
 - triviality 143
 - type 113
- strongly based 103, 130
 - –, indiscernibles 130
 - –, type on set 103, 175
 - independent 50, 120
 - I-saturated 219
 - κ -saturated 69
 - minimal formula 16
 - – theory 16
 - regular 244
- succeeds 343
- superstable 4, 80
 - descending chain condition 92
- supportive 367
- sustains 303
- Symmetry Axiom 40, 202
- system of invariants 2
- Szmielew 30
- Tarski-Vaught property 219
- The Open Mapping Theorem 77, 223
- theory of R -modules 25
- three model theorem 263, 272
- totally categorical 6
 - transcendental 4
 - trivial 328
- tractable type 290
- transitive 181
 - model 181
- Transitivity Axiom for Independence 40
- transitivity of dependence 35, 253
 - – isolation 196
- transposition axiom 196, 203
- tree 343
- triangle 284, 299, 300, 325
 - , of classes 300
 - , – points 299
- Trichotomy Theorem 183
- trite model 379
- trivial 142, 322, 325
 - type 325
- triviality of \neg 322
- two cardinal theorem 20, 211
- two-cardinal formula 20
- type p , based on a type r 294
- U -rank 160
- Ulm's theorem 1
- unbounded theory 6, 293
 - type 148, 290, 294
- uncountable languages 3
- unidimensional 293
- unstable 3, 89
- van der Waerden 35, 45

Vaughn 107

Vaught 20, 282

– conjecture 6, 299, 307

Vaughtian pair 20

weak transitivity of isolation 196

weakly isolates 243

– normal 184

– orthogonal 143

– transitive 254

Wedderburn-Artin theorem 98

weight 266

– one 254, 267

– – types 270

well-founded 50

Whitney 35, 45

width, theory 293

–, tree 343

Zariski topology 96

Ziegler 72, 79, 107, 183

Zilber 180, 183