

Author Index

- Abel N.H., 73, 74, 77, 142, 172
Abi-Khuzam F.F., 130
Abramovich V.S., 12
Agranovich P.Z., 41, 172
Ahlfors L., 100, 106–109, 113, 118, 148, 172, 213, 246
Akhiezer N.I., 43, 94, 172
Amira B., 25
Anderson J.M., 48, 63, 113, 116, 134, 135, 172
Anosov D.V., 64, 66, 173
Arakelyan N.U., 15, 42, 105, 113, 114, 123, 134, 173
Aranson C.X., 173
Arnold V.I., 141, 173
Avanissian V., 247
Avdonin S.A., 95, 173
Avetisyan A.E., 19
Azarin V.S., 7, 32, 36, 42, 46, 48, 49, 51–54, 58, 60, 63–65, 173
Babenko K.I., 17, 87, 174
Badalyan A.M., 12, 14, 174
Baernstein A., 48, 63, 128, 133, 172, 174
Bagdasaryan D.T., 12
Bajpaj S.K., 9
Balashov S.K., 9, 54, 64, 174
Balk M.B., 202–204, 206, 207, 209–211, 213, 214, 216, 217, 219, 220, 223–228, 231, 232, 234–240, 247
Bank S., 127, 143, 144, 146, 151, 174
Barsegyan G.A., 108, 119–121, 174
Barth K.F., 114, 174, 238
Bauer K.W., 242, 248
Bendixson I., 69, 70, 174
Berenstein C.A., 89
Bergman S., 244, 245, 248
Berndtsson B., 89, 91, 174
Bernstein C.A., 174
Bernstein S.N., 76, 94, 175
Bernstein V., 8, 21, 175
Bertrand O., 149, 175
Beurling A., 15, 16, 36, 175
Bieberbach L., 125, 126, 128
Bikchantaev I.A., 248
Bitsadze A.V., 235, 248
Bloch A., 28
Blumenthal O., 9, 11, 175
Boas R.P., 78, 79, 85, 93, 175
Bojchuk V.S., 11, 175
Borel E., 12, 14, 19–21, 25, 79, 82–85, 101, 117, 137, 138, 175, 214
Bosch W., 209, 223, 226, 240, 249
Bouquet J.C., 141, 142
Boutroux P., 146, 175
Brackx F., 244, 249
Brannan D.A., 174
Bratishchev A.V., 9, 89, 91, 175
Briot C.A.A., 141, 142
Bronstein I.U., 173
Buck R.C., 81, 176
Burgatti P., 199, 200, 249
Carlson F., 69
Cartan H., 100, 136, 138, 139, 213, 223, 249
Cartwright M.L., 16, 35–37, 55, 116, 117
Chebotarev N.G., 211
Chistyakov G.P., 165–168, 176
Choquet G.A.A., 109
Chuang Chi-tai, 103, 124, 176
Clunie J., 12, 113, 116, 134, 135, 176
Collingwood E.F., 220, 231–233, 236–238, 249
Cramer H., 165
Cuppens R., 167, 176
Czerner P., 249
Davis P., 206, 207, 249
De Mar R.F., 176
Dektyarev I.M., 136, 176
Delanghe R., 244, 249
Dinghas A., 108
Do Kong Han, 12
Dolzhenko E.P., 231, 233, 237, 238, 249
Dragilev M.M., 91, 176
Drasin D., 10, 104, 110, 114, 123, 134, 176
Duffin R.J., 94, 176
Dufresnoy J., 118, 139, 176, 227, 249
Dugué, 161
Dzhrbashyan A.M., 12
Dzhrbashyan M.M., 7, 12–14, 17, 19, 77, 78, 96, 97, 176
Edenhofer J., 249
Edrei A., 10, 11, 29, 114, 125–127, 129, 133, 134, 177
Edwards R.E., 243, 249
Epifanov O.V., 35, 177
Erdős P., 12, 25, 115, 177

- Eremenko A.E., 29, 35, 54, 60, 63,
104–106, 110–113, 115, 118, 134,
142–145, 171, 177, 180
- Erwe F., 230, 249
- Essén M., 133, 178
- Evgrafov M.A., 20, 75, 82, 83
- Fajnberg E.D., 61–63, 178
- Favorov S.Yu., 40, 53, 58, 178
- Fedorov V.S., 249
- Fempl S., 239, 249
- Fenton P.C., 24, 113, 135, 178
- Filshtinskij L.A., 230, 249
- Firsakova O.S., 86–88, 178
- Frank G., 151, 152, 174, 179
- Frei M., 150, 179
- Fridman A.N., 9, 15, 63, 179, 184
- Frostman O., 110
- Fryntov A.E., 165, 179
- Fuchs L., 141
- Fuchs W.H.J., 23, 24, 104, 105, 114,
126, 127, 129, 133, 134, 140, 179
- Fukasava S., 73
- Gabrinovich V.A., 249
- Gakhov F.D., 154, 179, 200, 249
- Ganin M.P., 250
- Garabedian P.R., 206, 250
- Gavrilov V.I., 118, 179
- Gelfand I.M., 17, 179
- Gelfond A.O., 71, 73, 74, 76, 77, 79–81,
179
- Ghermanescu M., 139, 179
- Giner V.B., 49, 53, 54, 56, 64, 65, 179
- Girnyk M.A., 123, 180
- Glejzer E.V., 128, 130, 180
- Gohberg I.Z., 18, 180
- Gol'dberg A.A., 8, 11, 24, 34, 35, 38,
43, 45, 47, 59–63, 103–106, 108, 112,
113, 115, 125, 127–130, 133–135, 139,
144, 146, 149, 169–171, 180, 198, 212,
213, 223–225, 250
- Golubev V.V., 141, 143, 181
- Gomonov S.A., 220, 250
- Gontcharoff V.L., 70, 74, 75, 77, 78, 81,
181
- Gorin E.A., 218, 250
- Goursat E., 250
- Govorov N.V., 15, 63, 133, 156–160, 181
- Griffiths P., 109, 182
- Grines V.Z., 173
- Grinshtejn V.A., 103, 180
- Grishin A.F., 38, 54, 59, 91, 112, 173,
182
- Gross F., 29, 182
- Gundersen G.G., 150
- Gurin L.S., 79, 182
- Hörmander L., 48, 66, 89, 90, 183, 218,
250
- Hadamard J., 9–12, 14, 15, 30, 31, 45,
67
- Halphen G.-H., 74, 182
- Havin V.P., 244, 250
- Hayman W.K., 11, 12, 14, 15, 23, 24,
28, 36, 103–106, 109, 110, 113–115,
123, 124, 140, 174, 179, 182
- Heersink R., 242, 250
- Heins M., 113, 182
- Heinz W., 250
- Hellerstein S., 129, 133, 182
- Higgins J.R., 93, 182
- Hiong King-Lai, 104, 122
- Hodge W.V.D., 218, 250
- Hruscev S.V., 96, 183
- Hua Xin-hou, 104, 183
- Huckemann F., 104
- Hyllengren A., 110, 140, 183
- Ibragimov I.I., 71, 72, 76, 77, 179, 183
- Ilyashenko Yu.S., 173
- Ince E.L., 141, 143, 183
- Iversen F., 113, 236
- Jensen J.L.W.V., 12, 30, 43, 44, 69, 71,
157
- Julia G., 116, 117
- Juneja O.P., 9
- Kövári T., 12, 25, 177
- Künzi H.P., 142
- Kagan A.M., 170, 183
- Kamynin I.P., 169–171, 183
- Karamata J., 9
- Karlin S., 183
- Katkova O.M., 172, 183
- Katsnelson V.E., 16, 17, 37, 96, 183
- Katznelson Y., 17, 183
- Kaufman R., 127, 174
- Kazmin Yu.A., 79, 81, 183
- Keldysh M.V., 16, 42, 71, 72, 183
- Kennedy P.B., 42
- Khinchine A.Ya., 164
- Khomyak M.M., 25, 184
- King J., 109, 182
- Kiyoharu, N., 250
- Kjellberg B., 11, 12, 54, 133, 184
- Klingen B., 9, 184
- Kobayasi T., 130
- Kolomijtseva T.A., 34, 184
- Kolossoff G.V., 197, 199, 243, 250
- Kondratyuk A.A., 46, 47, 63, 133, 134,
184
- Koosis P., 16, 17, 36, 184

- Korenkov N.E., 35, 181
 Korobejnik Yu.F., 9, 35, 89, 92, 176, 177, 184
 Koshelev A.D., 244–246, 250
 Kotelnikov V.A., 93, 185
 Krajewicz P., 209, 223, 224, 226, 229, 250
 Krasichkov I.F., 18, 32, 36, 59, 63, 185
 Krasnoselskij M.A., 208, 251
 Krein M.G., 18, 37, 38, 180, 185
 Kriszten A., 200, 251
 Kubota Y., 134, 185
 Kudina L.S., 15
 Lévy P., 161, 165
 Laine I., 143, 144, 151, 174, 185
 Landau E., 69
 Lapenko Yu.V., 47
 Lapin G.P., 88, 185
 Le Van Thiem, 104, 105
 Lekhnitskij S.G., 251
 Leontiev A.F., 18, 79, 85–88, 185
 Levin B.Ya., 8, 9, 31, 32, 34–36, 46, 55, 59–61, 85, 87, 94, 95, 97, 185, 250
 Lewis J.L., 105, 115, 119, 186
 Lidstone G.J., 78
 Lindelöf E., 8, 43, 228, 232
 Linnik Yu.V., 148, 161, 162, 164, 165, 167–169, 171, 183, 186
 Littlewood J.E., 63, 109, 118
 Lockhart P., 24
 Logvinenko V.N., 9, 41, 172, 186
 Lohwater A.J., 220, 231–234, 236, 237, 249, 251
 Lyubarskij Yu.I., 42, 97, 98, 186
 Lyubich M.Yu., 65, 174
 Macintyre A.J., 26, 29, 86, 186
 Macintyre S.S., 76, 186
 Maergojz L.S., 21, 186
 Malein Yu.S., 242, 243, 251
 Malliavin P., 16, 36
 Malmquist J., 142, 144, 186
 Malyutin K.G., 87, 88, 186
 Mandelbrojt S., 16, 17, 183, 186
 Manuilov N.F., 226, 248, 251
 Marchenko I.I., 133, 186
 Marchenko V.A., 16, 17, 37, 187
 Marcinkiewicz J., 170, 171
 Mase S., 167, 187
 Mathurin C., 206, 207, 251
 Matsaev V.I., 18, 61
 Matsuda M., 143, 187
 Mattison H., 187
 Mazalov M.Ya., 234, 248
 Mazurkiewicz S., 113
 Megrabyan S.N., 12
 Mergelyan S.N., 16, 187
 Mikaelyan G.V., 12
 Miles J., 44–46, 108, 129, 130, 133, 187
 Milloux H., 104, 118, 122, 124, 187
 Mittag-Leffler G., 20, 21, 78
 Mokhon'ko A.Z., 143, 144, 146, 187
 Mokhon'ko V.D., 143, 144, 146, 147, 150, 187
 Montel P., 116, 139, 187, 224, 226, 228, 243, 251
 Mues E., 125
 Mursi M., 86, 88, 187
 Muskhelishvili N.I., 197, 251
 Nörlund N.E., 69, 70, 81, 188
 Naas J., 251
 Natanzon V.Ya., 230, 251
 Nedelcu M., 251
 Nevanlinna F., 43, 104, 106
 Nevanlinna R., 15, 25, 100, 102–106, 108–110, 112, 113, 115, 123, 126, 127, 133, 134, 138, 142, 148, 152, 153, 187, 223–225, 251
 Nguyen T.H., 235, 252
 Nicolesco M., 205, 211, 252
 Nielsen N., 69
 Nikol'skij N.K., 96, 183, 188
 Nochka E.I., 139, 188
 Osgood C.F., 103, 188
 Oskolkov V.A., 75, 188
 Ostrovskii I.V., 26, 29, 35, 37, 38, 43, 61, 112, 113, 125–128, 133, 161, 162, 167–171, 180, 183, 187, 188, 192, 198, 223, 250, 252
 Ostrowski A.M., 116
 Oum Ki-Choul, 134, 188
 Ozawa M., 150
 Pöschl K., 149, 189
 Pólya G., 8, 10, 11, 19, 20, 22, 25, 45, 46, 72, 94, 144, 168, 189
 Painlevé P., 141, 145
 Paley R.E.A.C., 93, 133
 Pascali D., 244, 252
 Pavlov B.S., 95, 183, 188
 Pedoe D., 218, 250
 Perov A.I., 251
 Petrenko V.P., 111, 112, 133, 134, 138, 152, 153, 188
 Petrov V.A., 228, 232, 233, 236, 252
 Pfluger A., 32, 36, 46, 105
 Phragmén E., 8
 Picard E., 25, 27, 28, 99, 101, 141, 142, 188, 216
 Pincherlet S., 69

- Piranyan G., 135, 251
 Plancherel M., 94
 Plemelj J., 154
 Podoshev L.R., 56, 58, 60, 63, 179, 189
 Poincaré H., 141, 208
 Pokazeev V.I., 221, 252
 Pokazeev V.V., 230, 252
 Polukhin A.A., 220, 248, 252
 Pompeiu D., 199, 252
 Poritsky H., 78, 189
 Povolotskij A.I., 251
 Povzner A.Ya., 244, 246, 252
 Rafaelyan S.G., 96, 189
 Raikov D.A., 161
 Ramachandran B., 168
 Rao S.R., 183
 Rasulov K.M., 252
 Rauch A., 118, 124
 Reddy A.R., 25
 Reva T.L., 209, 252
 Riesz F., 231, 238
 Riesz M., 231, 238
 Rogozhin V.S., 252
 Rogozin S.V., 156, 189
 Ronkin A.L., 64
 Ronkin L.I., 16, 189, 214, 215, 252
 Rosenbloom P., 24, 189
 Rossi J., 133, 151, 178, 186, 189
 Rubel L.A., 43–45, 189
 Rudin W., 251
 Ruscheweyh S., 242, 248, 252
 Russakovskij A.M., 59, 91, 182, 189
 Sadullaev A., 138, 140
 Sarkisyan S.Ts., 252
 Savchuk Ya.I., 110, 139, 140, 189
 Saxer W., 27, 253
 Schönhage, 9
 Schaeffer A.C., 93, 94, 176, 190
 Schmidli S., 78, 79, 190
 Schoenberg I.J., 76, 78, 190
 Schopf G., 207, 253
 Schwartz L., 48, 200, 243
 Schwartz L.Mme., 113
 Schwarz H.A., 12, 163, 207
 Selberg H., 148, 190
 Seneta E., 9, 190
 Sergienko E.N., 18, 190
 Shah S.M., 8
 Shchuchinskaya E.F., 24, 190
 Shea D.F., 10, 45, 129, 133, 134, 176, 178, 187, 190
 Sheremeta M.N., 9, 10, 24, 25, 190
 Shilov G.E., 17, 179
 Shimizu T., 100, 107, 108, 191
 Sibuya Y., 153, 191
 Sigurdsson R., 64, 66, 183, 191
 Skaskiv O.B., 25, 28, 191
 Sobolev S.L., 200
 Sodin M.L., 40, 42, 48, 54, 55, 59, 63, 64, 98, 112, 118, 121, 127, 133, 178–180, 186, 191
 Sohocki Yu.V., 154
 Sokolov I.A., 249, 253
 Sons L.R., 25, 191
 Sorokin A.S., 204, 253
 Stein D., 182
 Steinmetz N., 103, 124, 130, 145, 146, 191
 Stoilow S., 108, 152, 191
 Strauss E.G., 24
 Strelits Sh.I., 11, 25, 26, 146–148, 191
 Strochik N.N., 47, 181
 Subbotin M.F., 19, 191
 Sugimura K., 25
 Sung Chen-Han, 139, 191
 Szilard K., 253
 Tairova V.G., 149, 181
 Takenaka S., 76, 192
 Taylor B.A., 43–45, 89, 174, 189
 Teichmüller O., 108, 113, 133
 Teodorescu N., 199, 200, 203, 211, 253
 Ter-Israelyan L.A., 113
 Toda N., 139, 192, 253
 Toppila S., 115, 116, 122, 123, 192
 Tovmasyan N.E., 235
 Traore A., 247
 Tumura Y., 113
 Turan P., 24, 25, 192
 Tushkanov S.B., 139, 181
 Tutschke W., 234, 248, 251
 Ulanovskij A.M., 171, 192
 Ullrich E., 104, 105, 122
 Ushakova I.V., 15, 192
 Valiron G., 8, 12, 15, 22, 23, 27, 28, 84, 102, 109, 113, 115, 116, 118, 133–135, 143, 144, 147, 148, 192
 Varga R.S., 76, 192
 Vasilenkov V.P., 204, 231, 233–235, 237, 239, 248, 253
 Vasin A.V., 253
 Vekua I.N., 200, 244, 253
 Vinogradov S.A., 96, 192
 Vishnyakova A.M., 171, 188, 192
 Wahlund A., 133
 Weierstrass K., 12, 70, 148
 Weitsman A., 105, 110, 133, 176, 186, 189, 192
 Weyl H., 213

- Whittaker E.T., 192
Whittaker J.M., 76–78, 85, 192
Wille R.J., 108, 192
Williamson J., 133, 182
Wilson R., 86
Wiman A., 14, 22, 23, 26–28, 133, 144,
147
Winn E., 86, 187
Wittich H., 108, 122, 143, 147, 149–152,
179, 192
Wu Hung-Hsi, 109, 193
Wu J.M., 105, 119
Xing Yang, 59, 193
Yakovleva N.I., 9
Yang Lo, 103, 104, 116, 117, 121, 123,
124, 176, 193
Yevgrafov M.A., 178
Yosida K., 144
Yulmukhametov R.S., 42, 193
Zabolotskij N.V., 108, 134, 181
Zabrejko P.P., 251
Zakharyan V.S., 12
Zakharyuta V.P., 176
Zatulovskaja K.D., 253
Zhang Guanghou, 115–117, 121, 123,
124, 176, 193
Zhang Ming-Jung, 200, 253
Zhegalov V.I., 243, 253
Zimoglyad V.V., 148, 171
Zuev M.F., 198, 203, 204, 207, 209, 213,
214, 217, 219, 232, 235, 236, 239, 240,
248, 253

Subject Index

- Canonical factor, 31
- Canonical product, 30
 - genus, 30
- Capacity
 - relative
 - upper, 40
- Category
 - growth, 6
- Characteristic
 - Laurent, 221
- Class
 - convergence, 6
 - interpolation series, 67
 - divergence, 6
 - uniqueness, 67
- Class I_0 , 164
- Class N , 164
- Closeness of a -points, 119
- Component
 - analytic, 198
 - distribution, 160
- Constant
 - Whittaker, 76
- Convergence abscissa, 69
 - absolute, 69
- Convexity
 - trigonometric, 8
- Curve
 - asymptotic, 112
 - entire, 136
 - polynomial, 220
 - rectifiable, 231
- Deficiency
 - Nevanlinna, 101
 - Valiron, 102
- Deficient
 - function, 103
- Density
 - angular, 32, 51
 - logarithmic
 - lower, 14
 - upper, 14
 - lower, 14
 - regular, 37
 - upper, 14
- Derivative
 - areolar, 199
- Deviation, 111
- Diagram
 - conjugate, 19, 20
- Direction
 - Borel, 116
 - maximal kind, 116
 - Julia, 116
- Distribution
 - indecomposable, 164
 - probability, 160
 - regular, 51
- Divisor of a distribution, 160
- Domain
 - elementary ρ -convex, 19
- Equation
 - bianalytic, 207
 - Briot-Bouquet, 142
 - differential
 - algebraic, 141
 - Painlevé, 141
- Exponent
 - convergence, 30
- Family
 - additive
 - growth characteristics, 58
 - total
 - growth characteristics, 58
- Function
 - k -monogenic, 244
 - analytic, 198
 - conjugate, 201
 - countable, 201
 - areolar polynomial, 198
 - bianalytic, 197, 199
 - canonical, 154, 156
 - characteristic, 136, 161
 - Nevanlinna, 100
 - coherent, 231
 - comb-like, 37
 - counting
 - of zeros, 7
 - CRG, 32
 - density, 39
 - entire
 - Cartwright class, 16
 - characteristic, 161
 - CRG, 32
 - irreducible, 207, 210, 212
 - PA, 210
 - primitive, 212

- reducible, 212
- Krein's class, 38
- meta-analytic, 239
- multi-analytic, 229
- order ∞ , 201
- polyanalytic, 197, 198
- polyharmonic, 200
- polymeromorphic, 199
- proximity
- Nevanlinna, 100
- quasi-normal, 227
- reduced, 200
- regularly varying, 9
- ridge, 161
- Schwarz, 207
- sine-type, 94
- slowly varying, 9
- subharmonic, 50
- supporting, 19
- type
- exponential, 7
- Mittag-Leffler, 7

- Growth
- characteristic, 57
- asymptotic, 57

- Homogeneity
- positive, 57

- Image
- Laurent, 221
- Index, 154
- central, 22
- ramification, 102
- Index of a zero, 208
- Indicator, 8, 46
- diagram, 8
- local, 11
- Indicator of a function, 9
- Inequality
- Nicolesco, 205
- Integral with respect to a non-additive measure, 61
- Invariance, 57
- Inverse problem, 104
- "narrow", 104
- Island, 107
- Island's multiplicity, 107

- Limit
- angular
- zero, 236

- Matrix
- Nevanlinna, 38
- Maximal term, 22
- Module
- polyanalytic type, 241
- Moment, 79

- Operator
- Fütter, 244
- Order, 6, 107
- n at a point a , 201
- exact, 199
- lower, 6, 10
- proximate, 8
- Order n on the set G , 201

- Pólya
- order, 10
- peak, 10
- Partitioning
- fine, 36
- Peninsula, 107
- Point
- condensation, 202
- node of interpolation, 67
- singular
- circular type, 222
- continuity, 221
- fixed, 141
- moving, 141
- Polynomial
- Hermitian, 218
- PA, 210
- Polynomoid, 222
- PA in D , 225
- Potential
- canonical, 50
- Problem
- Abel, 73
- interpolation, 67
- free, 85
- multiple, 88
- Lidstone, 78
- two-point, 77
- Pseudo-polynomial
- entire, 212

- Quasi-polynomial, 240

- Ray
- CRG, 32
- Riemann's boundary problem
- classic, 154
- homogeneous, 154

- non-homogeneous, 154
- with an infinite index, 156
- Riemann's boundary problem
 - with minus-infinite index, 156
 - with plus-infinite index, 156
- Riesz measure, 50
- Sector
 - slope, 232
 - Stolz, 232
- Sequence
 - filling disks, 118
 - quasi-regular, 227
 - regular, 226
- Series
 - Abel, 74
 - Bessel, 69
 - cardinal, 84
 - Gauss, 69
 - interpolation, 67
 - Lagrange, 83
 - Newton's interpolation, 68
 - Stirling, 68
- Set
 - ρ -convex, 19
 - cluster, 220
 - CRG, 59
 - exceptional, 23, 38
 - limit, 48
 - linearly dense, 18
 - polyanalytically separable, 202
 - regularly distributed, 32
 - V-admissible, 44
 - visible at a finite angle, 15
- Set C_0^α , 15
- Set R , 34
- Singularity
 - essential, 222
 - isolated, 220
 - polar, 222
- Solution
 - subnormal, 150
- Space
 - Hilbert
 - reproducing kernel, 246
- Spot
 - asymptotic, 112
- Spread, 130
- System
 - admissible, 137
- Theorem
 - Cartwright, 94
 - Paley-Wiener, 93
 - Picard, 216
- Theory
 - covering Riemann surfaces, 106
- Tract
 - asymptotic, 112
- Transform
 - Borel
 - generalized, 20
- Type
 - finite, 44
 - function, 8
 - maximal, 6
 - minimal, 6
 - normal, 6
 - value, 6
- Value
 - μ -completely ramified, 148
 - asymptotic, 112
 - cluster, 220
 - exceptional
 - Borel, 101
 - Julia, 116
 - Nevanlinna, 102
 - Petrenko, 111
 - Picard, 99
 - Valiron, 102
 - normal, 23
 - strong
 - Picard, 139
 - typical, 121
- Vorticity
 - coefficient, 156
 - order, 156
- Weight, 144
- Zeros and poles
 - separated, 128