

Index

0–9

$3 \cdot A_6$, 6, 11, 14, 99, 151, 187, 243, 245, 247
 $3 \cdot A_6 \cdot 2$, 6, 11, 19, 22, 99, 187, 247

A

(A, B) , 245–248, 251–255, 257–259, 261, 263–266, 268, 270
 (A, B, C_∞) , 5, 6, 245, 246
 (A, B, C_n) , 5, 6, 245–247
Adjacency algebra of an association scheme, 3
Algebra automorphism, 2, 4, 9, 244
Algebra homomorphism, 2, 4, 10, 244
Algebra isomorphism, 2, 9, 270
Array C_t , 5, 244
Association schemes, 3
Associative algebra, 1, 4, 243

B

Bose–Mesner algebra, 3

C

C -Algebras, 2, 3
 C_∞ -Table Algebra, 6, 246, 247
 C_n -Table Algebra, 5, 245–248, 251–255
 C -NITA, 4–6, 244–247
 C -NTA, 4, 244
Coefficient, 2, 4, 9, 243, 269–271
Coherent algebra, 3
Commutative algebra, 1, 3, 4, 9, 243
Component, 9, 160, 161, 164, 165, 170–172, 174
Conformal field theory, 3
Countable Normalized Table Algebra, 244
Countable Table Algebra, 4, 5, 243, 244, 246
Cyclic group, 21, 22

D

Definition of Table Algebra, 1

Degree, v, 1–4, 10, 11, 33, 34, 37, 51–53, 55, 56, 108, 151–155, 160, 161, 169–172, 174–178, 187–189, 243, 244, 247, 268, 269
Degree homomorphism, 2, 4, 244
Degree of the monomials, 269
Distance regular graphs, 3

E

Exactly isomorphic, 9, 11, 270

F

Faithful element, 3, 4, 21
Faithful non-real element, v, 271
Finite group, 1–3, 9, 10, 14, 152, 188
Finite group theory, 1, 2
Fusion rings, v, 1, 3
Fusion rule algebras, 3

G

Generalized circulants of finite groups
 circulants, 3
Generated by an element, 10, 21
Graph theory, 2

H

Hermitian form, 10
Homogenous Integral Table Algebra, 3
Hopf algebra, 3
Hypergroups, 3

I

Integral Table Algebra, 3, 4, 10
 Irr , v, 1–4, 6, 10, 11, 14, 80, 82, 151, 187, 216–220, 222–233, 236, 237, 245–247, 249–252, 261–263, 266, 267

Irreducible characters, 1, 3, 9, 152, 188, 270, 271
 Irreducible components, 9
 Isomorphic Table Algebra, 2, 9, 270
 ITA, 3, 10

L

$L(B)$, 55, 82
 $L_1(B)$, 28, 51, 87, 151, 155, 163, 164, 177, 179, 180, 182, 184–187, 243
 $L_2(B)$, 28, 33, 51, 55, 82, 87, 151, 153, 164, 165, 170, 187, 243
 Leading term, 269
 Linear element, 21
 Littlewood–Richardson rule, 271

M

Monomials, 269, 270

N

NITA, 4–6, 10, 11, 14, 22–24, 28, 29, 31–36, 38, 39, 42–45, 47–49, 52–55, 82–84, 95, 96, 99, 108, 151, 152, 187, 188
 Normalized basis, 10
 Normalized Countable Table Algebra, 4
 Normalized Integral Table Algebras, 1, 3, 4, 10, 151, 187
 Normalized Table Algebra, 2

O

Order of B , 2
 Orthonormal basis, 10

P

Polynomial irreducible representation, 271
 Polynomial representation, 6, 246, 247, 270
 Posets, 3
 Products of conjugacy classes of finite groups, 1, 9
 Products of irreducible characters, 1, 9

Pseudo groups, 3
 $PSL(2, 7)$, v, 4, 6, 10, 11, 82, 151, 187, 245, 247

Q

Quantum physics, 3
 Quotient Table Algebra, 21

R

Real element, 9, 11, 151, 170, 172, 177, 187, 189, 196, 200–204, 209, 210, 212–222, 226, 227, 230, 236, 246
 Representation theory, 10
 Rescaling of B' , 2, 9

S

Schur function, 270, 271
 Schur rings, 3
 Simple Table Algebra, 2
 SITA, 4, 268
 $SL(3, \mathbb{C})$, 6, 246, 247
 Standard element, 2
 Standard Table Algebra, 2, 3
 Stopping number, 5, 245, 246, 250, 251, 253
 Strictly isomorphic, 2, 6, 11, 14, 21, 22, 82, 152, 188, 245–247
 Structure constants, 2, 9, 10
Supp., 9, 10, 21, 25–27, 29–43, 47, 49, 51–54, 84, 90, 93–98

T

Table Algebra, 1–6, 9, 10, 21, 22, 80, 99, 147, 243, 245, 247, 270
 Table Algebra of conjugacy classes, 2, 10
 Table Algebra of irreducible characters, 2
 Table Algebras, 1–3, 5, 9, 10, 244, 245
 Table basis, 1, 4, 9, 243, 270
 Table subalgebra, 2, 10
 Table subset, 2, 11, 14, 19, 80, 99, 147
 Theory of fusion categories, 3