

Index of Notation for Volume 2

- Ad_ℓ : span of admissibles of length ℓ , 146
- \tilde{A}_2 : bigraded Steenrod algebra, 235
- $\tilde{\alpha}(B)$: twisted α -sequence of B , 249

- $B(W), B(\rho)$: Bruhat subgroup, 10
- $B(n)$: lower triangular matrices, 8
- $br(V)$: Brauer character of V , 68
- $br(V, g)$: value of $br(V)$ at g , 68
- $br(V, g, t)$: Brauer character series of graded module, 70

- $C(n)$: Dickson coinvariants, 84
- $c(n)$: product $x_1 \cdots x_n$, 140
- $cw(f)$: cyclic weight of f , 243

- DS : dual of symmetric algebra S , 223
- $\overline{D}(n)$: diagonal matrices in $\overline{G}(n)$, 97
- $\Delta(Y)$: top Dickson invariant in $P(Y)$, 118
- $\Delta(\lambda, n), \nabla(\lambda, n)$: Weyl (dual Weyl) module for $GL(n)$, 89, 105
- Δ_I : product of top Dickson invariants, 89
- Δ_n : top Dickson invariant $d_{n,0}$, 118
- $\overline{\Delta}(\lambda, n), \overline{\nabla}(\lambda, n)$: Weyl (dual Weyl) module for $\overline{G}(n)$, 104, 105
- $D(n)$: Dickson algebra, 84
- $des(\rho)$: descents of permutation ρ , 3
- $\widetilde{DP}(n)$: twisted divided power module, 265

- $e(n), e'(n)$: Steinberg idempotents, 60, 62
- e_I : element $\iota(h_I)$ of $H_0(n)$, 39
- e_k : elementary symmetric function, 97, 217

- F : Frobenius automorphism of \mathbb{F}_{2^n} , 242
- $F^\omega(\rho)$: zip array, 166, 187
- \mathbb{F}_{2^n} : field of 2^n elements, 242
- $FL^I(n)$: partial flag module, 15

- $FL_I(n)$: indecomposable summand of $FL(n)$, 21
- $\overline{\mathbb{F}}_2$: algebraic closure of \mathbb{F}_2 , 96
- ϕ^ω : Crabb–Hubbuck map, 161
- f_W : basis element of $H_0(n)$, 32

- G'_p : elements of order prime to p , 67
- $\overline{G}(n)$: algebraic group $GL(n, \overline{\mathbb{F}}_2)$, 96
- g_I : element $e_{-I}h_I$ of $H_0(n)$, 39

- $H_0(n)$: Hecke algebra of $FL(n)$, 32
- h_i : generator f_{S_i} of $H_0(n)$, 32
- h_k : complete homogeneous symmetric function, 97

- $-I$: complement of I in $Z[n-1]$, 37
- $I_2(\omega)$: set of repeated terms of ω , 172
- $inv(\rho)$: inversions of permutation ρ , 3
- ι : involution of $H_0(n)$, 35
- ι' : embedding of $H_0(n)$ in $\mathbb{F}_2 GL(n)$, 63
- ι_n : identity permutation, 160

- $\tilde{J}(n)$: twisted d-spike module, 267

- $K(DS)$: symmetric Steenrod kernel, 225
- $k(\rho), k'(\rho)$: (sub)key monomial, 124
- κ_* : dual of Kameko map κ , 221
- $\tilde{K}(n)$: twisted Steenrod kernel, 265
- $\tilde{\kappa}_*$: twisted dual up Kameko map, 276

- $L(\lambda)$: irreducible $\mathbb{F}_2 GL(n)$ -module, 49
- L_i : transvection, 61, 63, 162
- $\overline{\Lambda}^k(n)$: k th exterior power of $\overline{V}(n)$, 97
- $\overline{L}(\lambda)$: irreducible $\overline{G}(n)$ -module with highest weight λ , 98

- M^* : contragredient dual of module M , 23

- M^{tr} : transpose dual of module M , 23
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 $\tilde{\text{P}}(n, j)$: span of monomials of cyclic weight j , 243
 $\tilde{\text{Q}}(n, j)$: cohit quotient of $\tilde{\text{P}}(n, j)$, 245
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 $S^\omega(\rho)$: spike block, 160
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 $S_{i,j}$: switch matrix, 3
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 $\text{Sch}(n)$: Schubert monoid, 33
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Index of Notation for Volume 1

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- $\xi \cap \theta$: action of dual on Hopf algebra, 255
- $f \sim_l g, f \sim_r g$: $f - g$ is left (right) reducible, 101
- $f \sim g$: $f - g$ is hit, 9
- $v^{(r)}$: r th divided power of v , 165

- $A(d)$: minimal admissible sequence with sum d , 88
- A^t : transpose of matrix A , 169
- A^{op} : opposite algebra of A , 63
- $A|B$: concatenation of blocks, 103
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- A_2^+ : augmentation ideal of A_2 , 35
- A_2^d : Steenrod operations of degree d , 35
- A_q : mod q Steenrod algebra, 241
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- $\alpha(d)$: no. of 1s in binary expansion of d , 10
- $\alpha^{\max}(n, d)$: conjugate of $\omega^{\max}(n, d)$, 85
- $\alpha_i(B)$: no. of 1s in i th row of B , 42
- $|A|$: sum of sequence A , 35, 69

- $\text{Bin}(n)$: binary partitions, multiplicities $\leq n$, 72
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- $\text{deg}_2 R$: 2-degree of sequence R , 40, 69
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- η_i : conjugate of ξ_i in A_2^* , 230, 283
- ε : counit (augmentation) map, 213
- e_k : elementary symmetric function, 40
- $\text{ex}(\theta)$: excess of $\theta \in A_2$, 28, 91

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- $\mathbb{F}_2 \text{GL}(n)$: group algebra, 4
- $\text{FL}(n)$: complete flag module, 199
- ϕ : coproduct map, 213

- $\text{GL}(n)$: general linear group, 4
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- h_k : complete homogeneous symmetric function, 40
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