

Group Theory in Subnuclear Physics.

Erratum

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p.7 In the row above Eq. (1.14) replace function by functional (thanks to W. Plessas)

p.37 Fig. 3.2 The arrow on rho and lambda should be in opposite direction (thanks to P. Fontaine)

p.64 First row, ψ should be in italic (thanks to N. Matagne)

p.90 Eq. (4.95b) replace the inequality sign $>$ by \geq

p.75 The function labelled by the Yamanouchi symbol (2111) (row 2) of configuration $\alpha^2\beta^2$ has the norm $1/\sqrt{12}$ instead of $1/\sqrt{6}$ (thanks to D. Bartz)

p.84 The matrix of the permutation (23) belonging to S_5 has the first nonzero diagonal element equal to $-1/2$ instead of $-1/3$ (thanks to D. Bartz)

p. 89 In the last row $g \in S_{n-1}$ should be replaced by $g \in S_n$ (thanks to N. Matagne)

p.108 Line 6 of section 4.6 , in $m+1$ type m in italic (thanks to P. Fontaine)

p.108 Line 8 of section 4.6, replace] by [before f_2 (thanks to P. Fontaine)

p.111 In the list of dimensions of irreps of S_8 indicated after eq. (4.126) the entry $d_{[321^2]}$ should be replaced by $d_{[321^3]}$ (thanks to F. Pauquay)

p.114 Eq. (4.135) replace $S(\dots\dots[f']Y')$ by $S(\dots\dots[f]Y)$

p.122 In Table 4.6 the multiplicities associated to the inner products $[3^2] \times [321]$ or $[2^3] \times [321]$ should be zero for the irrep $[3^2]$ instead of 2 and 1 for $[31^3]$

instead of 3.

p.142 Insert bra in the left-hand side of eq. (6)

p.150 Eq. (5.12) in the bracket n should be replaced by r (thanks to N. Matagne)

p.150 Eq. (5.15a) on the left hand side d should not be italic

p.170 In the 7th row of the section 5.8 the product $so(3) \times so(3)$ should be replaced by the direct sum $so(3) \oplus so(3)$

p.173 In the second row after (5.113) replace l -dimensional by ℓ -dimensional (thanks to N. Matagne)

p.194 In the line after Eq. (5.171) ϕ should be italic (thanks to N. Matagne)

p.198 In Eq. 2, δ is missing in the numerator (thanks to N. Matagne)

p.227 In Eq. (6.105) replace the operator $1 - \alpha J_k$ by $1 - i\alpha J_k$ (thanks to D. Bartz)

p.230 Eq. (6.127) the parantheses on the rhs of G_1 should have equal size, like e.g. in G_2

p.240 In row 9 replace (6.171) by (6.177) (thanks to D. Bartz)

p.246 Eq. (7.35) replace the index i by k in the left hand side

p.253 Eq. (7.89) the coefficient in front of σ_{0i} is $1/2$ instead of $i/2$

p.256 In the before last line the quantity α_μ should be replaced by a_μ (two times) (thanks to W. Plessas)

p.268 Eq. (8.50) , the phase of the element u_{22} should have opposite sign (thanks to L. Remezo)

p.276 In Eq. (8.87) replace indice 10 by 00

p.276 In Eq. (8.88) the function F in the last term should be outside the square bracket (thanks to Jean-Philippe Halain)

p.278 In Table 8.2 replace the value of d_{888} by $-1/\sqrt{3}$ (thanks to B. Van den Bossche)

p.279 In the left hand side of the second Eq. (203) replace $N_{-a,-\beta}$ by $N_{-\alpha,-\beta}$ (thanks to N. Matagne)

p.284 Second row after Eq. (8.124) remove space between representation and comma (thanks to N. Matagne)

p.306 Eq. (8.165) replace θ by u and δ by d (thanks to D. Bartz)

p. 316 Table 8.7 column 1, line 17 replace $[21]^3$ by $[21^3]$

p.323 Table 8.9 , Mass of Λ_b is 5641 instead of 5461 (thanks to S. Pepin)

p.334 In the first equation which is not numbered, after the last equality sign replace the diagram $[321]^1$ by $[311]^1$

p.335 In Eq. (8.223) replace $C = 0$ associated to $[111]$ by $C = -1$ and $C = 1$ associated to $[11]$ by $C = 0$

p.336 Line 5, replace $C=3$ by $C=2$ (thanks to D. Bartz)

p.343 In one of the unnumbered relations between (8.233) and (8.234) replace $T^{12} = ud - ds$ by $T^{12} = ud - du$

p.351 The eq. between (9.25) and (9.26) should have proportionality sign instead of equal sign. If equality is maintained one has to add a fator of 2 in the rhs

p. 361 Line 5 from below, replace $2S$ by $2S+1$ (thanks to N. Matagne)

p. 394 Eq.(6) rhs , replace α_s by 1

Table 8.4 The table is valid also for the case $\lambda = \mu$

Table 8.6a The correct decay is $K_L^0 - - > 3\pi^0$ instead of $K_L^0 - - > 3\pi^+$

Table 8.14 The third diagram , with two boxes on the vertical line, should have $C=1$ instead of $C=10$