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Howard Haber for their help.

Page xii: Para 2, line 1, should read “.. costs were ..”
Page 18: Second line of Exercise 1.4.1* 0 \rightarrow |0\rangle
Page 43: Equation in part (2) should read “M^i M^j = - M^j M^i for i \neq j”
Page 52 3rd line from bottom: |II(t)⟩ \rightarrow |II(t)⟩
Page 52, Middle of page, after the word ”Consequently” : |I(t) \rightarrow |I(t)⟩
Page 54: The sum runs from 0 to ∞.
Page 63: Exercise 1.10.2: δ(f(x)) = \sum_i \frac{\delta(x-x_i)}{|df/dx|_{x_i}} where x_i are the zeros of f.
Page 66: In un-numbered equation above (1.10.30) lower limit of integral is L and not 0.
Page 68: (1.10.35) the first integral should be “\int_{-\infty}^{\infty} 〈x|k⟩〈k|f⟩dk”
Page 81: 4 lines below (2.1.14): should read “...ρ = (x^2 + y^2)^{1/2}... ”
Page 119: Unnumbered equation in (5) should read “ P(λ) \propto |〈λ|ψ⟩|^2 ”
Page 120: First equation (line 4) |ψ⟩ = \frac{1}{2}|ω_1⟩...
Page 167: 2 lines below (5.4.1) should read “..dotted lines in Figure 5.2.”
Page 171: Line below Eq (5.4.17): ..Gaussian G(−a, k_0, t) is centered...

Page 175: Exercise 5.4.2: Line 1, “of a potential” \rightarrow ”off a potential ”
Page 191: 7 lines below (7.3.8) should read “... ranging from atomic physics...”
Page 252: 3 lines above (10.1. 9a) should read “...X_1^{(1)} \otimes X_2^{(2)} ...”
Page 255: 2 lines below (10. 1. 28c) should read “.. energy eigenvectors...”
Page 296: Footnote should read “which does change with time ”
Page 317: Part 10 line 2 should read : ”..n = 1 solutions..”
Exercise (12.3. 8) should read “.. particle of mass μ and charge q.”
Page 320: Eq 12.4.12: Last exponential must have an i in it..
Page 320: Eq. (12.4.2) second line = e^{-iLθ}
(L and θ should be same size despite what I have shown above)
Page 336: 5 lines from bottom should read “.. combinations of ..”
Page 337: 1 line below (12.5.41) should read “...Legendre Polynomial.”
Page 339: Exercise (12.5.14), last line, change (2) to (3) in Hint.
Page 339: In Exercise (12.5.14) reverse any sign in front of sin θx in both equations for ψ_R.
Page 350: Top equation should contain pr cos θ/ℏ
Page 392: line above heading **Paramagnetic Resonance** should read i.e., since $\omega_0 < 0$ for an electron, $\phi$ increases at a rate $|\omega_0|$.

Page 394: Line 2 from bottom replace $n$ by $N$ in equation.

Page 397: Fourth line from bottom “weak” should read “strong”

Page 399: Exercise (14.5.2) part (1) second line should read “..1000kG is applied.

Page 408: 3 lines above part (3): should read “ wavelength of emitted..”

Page 414: Second footnote should read “.. one for $j = l + \frac{1}{2}$ and ...”

Page 414: Line 6 should end with ”momentum”

Page 415: Page 397: Third line second para, “weak” should read “strong”

Page 415: Exercise (15.2 6) should read “... the projection operators ..”

Page 415: Exercise (15.2 7) should read “ states with $j = 2j_1 - 1$ are..”

Page 418: Eq. 15.3.11 first line : $\pm \hbar [...]$ becomes $\hbar [...]$, i.e., drop the ±

Page 418: 2 lines below (15.3.13) should read“.. orthogonal to $T^q_k|\alpha jm\rangle$ unless.”

Page 419: Footnote should read“..$\mp (J_x \pm i J_y)/\sqrt{2} = ..$”

Page 420: In (15.3. 17) the conjugated Y functions should appear as follows: $Y_{l_2}^{m_2*}$

Page 420: Renumber exercises 15.3.2, 15.3.3 and 15.3.4 as 15.3.1, 15.3.2,15.3.3

Page 429: Last line should read :“ This minimum.”

Page 432: 4 lines above (16.1.15) should read ”variational method. For a trial..

Page 432: Line below (16.1. 15) should read “...minimum lies not at $Z = 2...$”

Page 439: In the un-numbered equation for $U$, let $X' \rightarrow x'$

Page 446: 2 lines below (16.2. 28) should read “.. neither Eq. (16.2 27) nor Eq. (16.2. 28) is ...”

Page 467: Eq. 17.3.11: $\frac{4E_0^2n}{l+1/2} \rightarrow \frac{4(E_0)^2n}{l+1/2}$

Page 485: Line above (18.3. 8b) should read ”.. equation, we get”

Page 507: First line penultimate para ”..coordinates.”

Page 526: Line above (19.2.5) should end with “..Eq. (19.2.2)

Page 530: Eq. 193.2: $|p_i\rangle \rightarrow |p_i\rangle$

Page 533: Line 3 should read “.. $r_0 = 1/\mu_0...$”
Page 539: Top line should contain only the following and nothing else: $\simeq r \left(1 - 2\frac{r_r'}{r^2}\right)^{1/2}$

Page 564: In (20.1.8b) it should read “.. + \left(\frac{mc}{\hbar}\right)^2”

Page 572: Top line should read “.. terms make corrections..”

Page 573: Third line put a comma after first $P$

Page 576: last line (foot note) ”...we woke up..." should read ”..he woke up...

Page 587: 5 lines above (21.1.29), sentence should begin as follows: “Let us discuss a problem...”

Page 609: RHS of (21.1.126) should be $e^{z_2 z_1}$, RHS of (21.1.127) should end with $= e^{-z^* z}$.

Page 610: Second line below Eqn.(21.1.132): “.. $\langle z'|\bar{z}\rangle = e^{z^* z}$

Page 614: In (21.2.3) replace $\psi(t)$ by $\psi(\tau)$ in LHS.

Page 616: Line below 921.2.17) should end as follows “case $a = A = 1$”

Page 618: Eq 21.2.25 should read (the factor $a$ is currently missing)

\[ \ldots \tanh \left[ \sqrt{\frac{2}{m}} aA\tau \right] \]

Page 652 Eq 21.3.107: The bar should be on $\psi(0)$: i.e.,

\[ \ldots \langle \psi(\tau) \bar{\psi}(0) \rangle \]

Page 667: Answer to 14.3.5 should read ..... $+ i \left(\frac{\beta_2 - \gamma}{2}\right) \sigma_y + ..$

Page 673: Insert index item “Legendre polynomial 337” above Lamb shift.

Page 676 Last entry, Zeeman should have just one $n$. 