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Errata
for

Exclusive Production of Neutral Vector Mesons at the Electron–Proton Collider HERA

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1. Page 45: Eq. 3.2.34 should be

$$W^2_{\gamma^*\mathrm{p}} \quad = \quad 2E_\mathrm{p}(E-P_z)_\mathrm{V}.$$

2. Page 69: Eq. 3.2.41 should be

$W(\cos\theta_\mathrm{h}, \phi_\mathrm{h}, \Phi_\mathrm{h}) =$

$$\begin{aligned}
\frac{3}{4\pi}\Bigg[& \Bigg(\frac{1}{2}\left(1-r^{04}_{00}\right) + \frac{1}{2}\left(3r^{04}_{00}-1\right)\cos^2\theta_\mathrm{h} \\
& -\sqrt{2}\,\mathrm{Re}\, r^{04}_{10}\ \sin 2\theta_\mathrm{h}\cos\phi_\mathrm{h} - r^{04}_{1-1}\sin^2\theta_\mathrm{h}\cos 2\phi_\mathrm{h}\Bigg) \\
& -\varepsilon\cos 2\Phi_\mathrm{h}\big(\ r^1_{11}\sin^2\theta_\mathrm{h} + r^1_{00}\cos^2\theta_\mathrm{h} \\
& \qquad -\sqrt{2}\,\mathrm{Re}\, r^1_{10}\ \sin 2\theta_\mathrm{h}\cos\phi_\mathrm{h} \\
& \qquad -r^1_{1-1}\sin^2\theta_\mathrm{h}\cos 2\phi_\mathrm{h}\ \big) \\
& -\varepsilon\sin 2\Phi_\mathrm{h}\big(\ \sqrt{2}\,\mathrm{Im}\, r^2_{10}\ \sin 2\theta_\mathrm{h}\sin\phi_\mathrm{h} \\
& \qquad +\mathrm{Im}\, r^2_{1-1}\sin^2\theta_\mathrm{h}\sin 2\phi_\mathrm{h}\ \big) \\
& +\sqrt{2\varepsilon(1+\varepsilon)}\cos\Phi_\mathrm{h}\big(\ r^5_{11}\sin^2\theta_\mathrm{h} + r^5_{00}\cos^2\theta_\mathrm{h} \\
& \qquad\qquad -\sqrt{2}\,\mathrm{Re}\, r^5_{10}\ \sin 2\theta_\mathrm{h}\cos\phi_\mathrm{h} \\
& \qquad\qquad -r^5_{1-1}\sin^2\theta_\mathrm{h}\cos 2\phi_\mathrm{h}\ \big) \\
& +\sqrt{2\varepsilon(1+\varepsilon)}\sin\Phi_\mathrm{h}\big(\ \sqrt{2}\,\mathrm{Im}\, r^6_{10}\ \sin 2\theta_\mathrm{h}\sin\phi_\mathrm{h} \\
& \qquad\qquad +\mathrm{Im}\, r^6_{1-1}\sin^2\theta_\mathrm{h}\sin 2\phi_\mathrm{h}\big)\Bigg],
\end{aligned}$$

3. Page 70: The second paragraph should begin

If the helicity amplitudes obey SCHC and natural parity exchange, then the only nonzero density matrix elements are $\varrho^4_{00} = 1, \mathrm{Re}\,\varrho^1_{1-1} = -\mathrm{Im}\,\varrho^2_{1-1} = \frac{1}{2}, \mathrm{Re}\,\varrho^5_{10} = -\mathrm{Im}\,\varrho^6_{10} = \cos\delta/\sqrt{8}$ and the angular distribution reduces to

4. Page 89: The third entry in reference 14 should be

   B. Foster et al., Nucl. Phys. B (Proc. Suppl.) 32 (1993) 181.

5. Page 90: The fifth entry in reference 32 should be

   G. Altarelli and G. Parisi, Nucl. Phys. B126 (1977) 298.

6. Page 92: Reference 87 should be

   M. Arneodo, L. Lamberti, and M. Ryskin, Comp. Phys. Commun. **100** (1997) 195

7. Page 93: Reference 108 should be

   L. Hand, Phys. Rev. **129** (1963) 1834

8. Page 94: Reference 152 should be

   B. Humpert and A.C.D. Wright, Phys. Lett. **B 65** (1976) 463;
   B. Humpert and A.C.D. Wright, Phys. Rev. **D 15** (1977) 2503.