

$$\begin{aligned}
& -\text{tr} \left(\gamma^{\mu_4} \frac{1}{k^2 - M^2} \gamma^{\mu_1} \gamma_5 \frac{\not{k} + M}{k^2 - M^2} \gamma^{\mu_2} \gamma_5 \frac{\not{k} + M}{k^2 - M^2} \gamma^{\mu_3} \gamma_5 \frac{\not{k}}{k^2 - M^2} \right) \\
& = -\text{tr} \left(\gamma^{\mu_4} \frac{1}{k^2 - M^2} \gamma^{\mu_1} \frac{\not{k} - M}{k^2 - M^2} \gamma^{\mu_2} \frac{\not{k} + M}{k^2 - M^2} \gamma^{\mu_3} \gamma_5 \frac{\not{k} + M}{k^2 - M^2} \right)
\end{aligned}$$

g over directions of k gives

WEAK INTERACTIONS AND MODERN PARTICLE THEORY

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$$+\frac{1}{4}k^2\text{tr}\left(\gamma^{\mu_4}\frac{1}{k^2-M^2}\gamma^{\mu_1}\frac{1}{k^2-M^2}\gamma^{\mu_2}\frac{1}{k^2-M^2}\gamma^{\mu_3}\gamma_5\frac{1}{k^2-M^2}\right)$$

1 term vanishes and the second and fourth are equal, so this

$$\begin{aligned}
& \text{tr} \left(\gamma^{\mu_4} \frac{1}{k^2 - M^2} \gamma^{\mu_1} \frac{M}{k^2 - M^2} \gamma^{\mu_2} \frac{M}{k^2 - M^2} \gamma^{\mu_3} \gamma_5 \frac{M}{k^2 - M^2} \right) \\
& + k^2 \text{tr} \left(\gamma^{\mu_4} \frac{1}{k^2 - M^2} \gamma^{\mu_1} \frac{1}{k^2 - M^2} \gamma^{\mu_2} \frac{1}{k^2 - M^2} \gamma^{\mu_3} \gamma_5 \frac{1}{k^2 - M^2} \right)
\end{aligned}$$

HOWARD GEORGI

in using (6a.3.17) and (6a.3.35) and putting in the color factor

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Roger G. Newton



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