Additional Remarks and Errata Corrige to a Paper on the Theory of Spin 2 Particles.

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We apologize here for some misprints which appeared on a recent paper ⁽¹⁾ by the author. A list of them is given at the end of this letter. At the same time we thought it useful to point out some additional properties of the γ_μ matrices, discovered after the paper was published. These properties considerably simplify the calculation of useful quantities like traces of products of several γ_μ matrices. To show them we follow here the same kind of algorithm already used in ⁽¹⁾ and to which the reader is referred. In the following A_μ, B_μ etc. are any completely commutable vectors. We define barred operators as $\mathfrak{A} = A_\mu \gamma_\mu$, etc.

Then from the definition of the (p. 328) and a rather easy but lengthy calculation one can prove the following identities:

$$(1) \quad \mathfrak{A}\mathfrak{B}\mathfrak{C} + \mathfrak{B}\mathfrak{C}\mathfrak{A} + \mathfrak{C}\mathfrak{A}\mathfrak{B} = \mathfrak{B}\mathfrak{A}\mathfrak{C} + \mathfrak{C}\mathfrak{B}\mathfrak{A} + \mathfrak{A}\mathfrak{C}\mathfrak{B},$$

$$(2) \quad (\mathfrak{A}\mathfrak{B} - \mathfrak{B}\mathfrak{A})\mathfrak{C}(\mathfrak{D}\mathfrak{E} - \mathfrak{E}\mathfrak{D}) = 0.$$

They are consistent with the trace of six γ_μ matrices (see p. 331).

Finally we give here the list of the misprints:

page	instead of:	read:
327	$(\frac{3}{2}, \frac{1}{2}) \frac{1}{2}, \frac{3}{2})(\frac{1}{2}, \frac{1}{2})$	$(\frac{3}{2}, \frac{1}{2})(\frac{1}{2}, \frac{3}{2})(\frac{1}{2}, \frac{1}{2})$
327	to formula (4) add	$ \mu\nu\rangle = 0.$
327-8	to formula (5) add	$\langle\mu\lambda = 0 \quad \langle\mu\lambda\nu = 0 \quad \langle\mu\lambda\nu \varrho\rangle = 0$
328	$L = -\bar{\Psi}(\delta + m)\Psi$	$L = -\bar{\Psi}(\delta + m)\Psi$ where $\delta = \partial_\mu \gamma^\mu$
329	$\langle v_\sigma^o v_r^p \rangle$	$\langle v_\sigma^p v_r^p \rangle$

⁽¹⁾ T. REGGE: *Nuovo Cimento*, **5**, 325 (1957).

page	instead of:	read:
329	$\langle \mathfrak{P}^4 = im\mathfrak{P}^3 \rangle / 2m^4$ $\langle \mathfrak{P}^4 + im\mathfrak{P}^3 \rangle / em^4$	$\langle \mathfrak{P}^4 - im\mathfrak{P}^3 \rangle / 2m^4$ $\langle \mathfrak{P}^4 + im\mathfrak{P}^3 \rangle 2m^4$
329	$K = \sum_{\sigma\tau} \langle v_\sigma^\rho A v_\tau^\varrho \rangle ^2$	$K = \sum_{\sigma\tau} \langle v_\sigma^P A v_\tau^\varrho \rangle ^2$
330	$10\lambda_1 + 4\lambda_2$	$10\lambda_2 + 4\lambda_1$
332	$\dots \frac{13}{45} P^2 Q^2 [P^2(QE)^2 + Q^2(PE)^2]$ $- \frac{1}{18} (PQ)^2 \cdot [P^2(QE)^2 + Q^2(PE)^2]$	$\dots \frac{13}{90} P^2 Q^2 [P^2(QE)^2 + Q^2(PE)^2]$ $+ \frac{1}{36} (PQ)^2 [P^2(QE)^2 + Q^2(PE)^2]$
333	$\frac{1}{5} \sum_{\sigma\tau} \langle v_\sigma^{P_i} \mathfrak{E} v_\tau^{P_j} \rangle ^2$ $= \frac{1}{2m^4} \langle \dots - m^2 \mathfrak{P}_i^3 \mathfrak{E} \mathfrak{P}_j \mathfrak{E}^3 \rangle$	$\frac{1}{5} \sum_{\sigma\tau} \langle v_\sigma^{P_i} \mathfrak{E} v_\tau^{P_j} \rangle ^2$ $= \frac{1}{2m^8} \langle \dots - m^2 \mathfrak{P}_i^3 \mathfrak{E} \mathfrak{P}_j^3 \mathfrak{E} \rangle$
334	$\langle \overline{P_1} \overline{P_2} P_3 \varepsilon \mathfrak{P} : \varepsilon B_1 B_2 B_3 \rangle$	$\langle \overline{P_1} \overline{P_2} P_3 \varepsilon \mathfrak{P}_i^4 \varepsilon \overline{P_1} \overline{P_2} P_3 \rangle$