

2022-04-07 QFD

LACOMP
2022
JAL

$$\begin{pmatrix} v^T \\ \dots \end{pmatrix} (M) (v) = \#$$

$$\text{tr} \left[(v) (v^T) (M) \right] = \#$$

$$\Phi \equiv P_n \gamma^n \quad || \quad A = \gamma^m A_m$$

$$\left(\sum_i \alpha_i \cdot \vec{p}_i + \beta \gamma_0 \right) \gamma^\mu$$

Diagram illustrating the decomposition of the Dirac equation term $(\sum_i \alpha_i \cdot \vec{p}_i + \beta \gamma_0) \gamma^\mu$. Arrows indicate the following mappings:

- α_i maps to $\gamma^0 \gamma^i$
- β maps to γ^0
- γ^μ maps to γ^0