Relativisitc Quantum Mechanics Problem Sheet 4

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Spin- $\frac{1}{2}$ particle scattering

1. Calculate the spin averaged amplitude squared $(\overline{|\mathcal{M}|^2})$ for the process $e^+e^- \to e^+e^-$ and in the high energy limit express the result in terms of Mandelstam variables.

 ${\it Hint: include \ both \ diagrams}$

[10]