

## The Fermion Amplitude Probability as a Trace over Spinor Indices

We re express the fermion probability amplitude as a trace over spinor indices; this reformulation puts the probability amplitude and the probability on equal footing at the computation level. We test the power of the trace formula in two applications: The calculation of the fermion charge-current using a symbolic program and the analytic computation by hand of the quark dipole magnetic moment.

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