Spin 2 Particle with Anomalous Magnetic Moment in External Electromagnetic and Gravitational Fields

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Abstract: We study the 50-component theory for a massive spin 2 particle in presence of electromagnetic fields and any Riemannian space-time background. Such a generalized theory describes the particle with anomalous magnetic moment; in addition, there arises non-minimal interaction with the curved space-time background through Ricci and Riemann tensors.

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