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Gravitational Scattering Amplitudes and Closed String Field Theory

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We construct a closed string field theory in the proper-time gauge which is the closed analog of the deformed cubic open string field theory and define the general closed string scattering amplitudes. Taking the zeroslope limit, we explicitly evaluate the three-graviton scattering amplitudes and the four-graviton scattering amplitudes. We discuss in the framework of the closed string field theory, the Kawai-Lewellen-Tye (KLT) relations, which relate the tree level string scattering amplitudes of closed string to those of open string.

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