



Department of
Theoretical Physics

THE QUANTUM SPACETIME SEMINAR SERIES

Low momentum expansion of one loop string amplitudes

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(Duration and Location are subject to irreducible jitter)

I shall discuss the low momentum expansion of the four graviton amplitude in maximally supersymmetric string theory, which leads to local terms in the effective action. This is obtained by integrating certain modular graph functions over the fundamental domain of $SL(2, \mathbb{Z})$. I shall also discuss new issues that arise for the five graviton amplitude.