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Long String Scattering in $c=1$ String Theory

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We compute scattering amplitudes for long strings in $c=1$ string theory and in the dual matrix model. On the worldsheet side, the long string amplitudes are obtained from the boundary conformal field theory of open strings on FZZT branes, in a limit where the branes decouple. In particular, we compute tree-level amplitudes for a long string to emit a closed string, and for the 2-to-2 scattering of long strings. These are numerically matched to computations in the adjoint and bi-adjoint sectors of the dual matrix model, thereby providing strong evidence for the duality beyond the singlet sector.

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