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Dilaton Scattering and Regge Trajectories

Monday 11 December 2023 17:00 (30 minutes)

I will discuss scattering amplitudes of neutral Goldstone bosons such as dilatons, pions or branons. I will construct non-perturbative bounds on the dimensionless ratios of Wilson coefficient describing their low energy behaviour. I will then analyse scattering amplitudes saturating the above bounds. I will show that these amplitudes in some parameter range contain resonances with complex energies which organise themselves into Regge trajectories.

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