

Thursday, October 16th @ 1pm
Schwinger Lounge

“The soft physics of amplitudes in background fields”

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Abstract: Soft theorems and collinear singularities in flat space tell us much about the structure of scattering amplitudes. The question I ask in this talk is: what are the soft limits of scattering amplitudes on non-trivial backgrounds? We will study the case of plane waves (in gauge theory and in gravity, a special case of pp-wave spacetimes) and see how a background field, treated non-perturbatively, affects the infrared properties of scattering processes involving gluons and gravitons.

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