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Scattering amplitude and its soft decomposition

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In the pure scattering theory, the universality of the soft limit has been studied for a long time. In this talk we review the property of soft limit to relate an n -point amplitude to an $(n-1)$ -point amplitude. We show how this property can be used to decompose amplitudes into different complementary soft channel. The existence of such decomposition provides a new way to understand how to construct amplitude solely from their soft limit.

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