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High-energy string theory and celestial holography

Monday 16 June 2025 14:30 (30 minutes)

In my talk I make connection between two seemingly unrelated topics: (a) the high energy limit of string theory (more specifically, the high energy (zero tension) limit of tree-level string scattering in flat backgrounds) and its subleading corrections as saddle-point approximation on the string world-sheet, (b) the infinite energy limit of celestial string amplitudes as stationary phase approximation. We shall give evidence of a connection of the string world-sheet and the celestial sphere of the underlying scattering process.

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Session Classification: Topical Seminars