

# Quantum Gravity at the Null Asymptote

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In recent years there has been a renewed interest in the mathematical structure and gravitational physics of the null asymptote, in both classical and quantum regimes. From Carrollian Geometries, BMS symmetry, and the radiative phase space to quantization of null data, asymptotic graviton states, and infrared sectors, there is a vast ocean of mathematics and physics that can be learned from studying the asymptotic structure of asymptotically flat spacetimes. This presentation will review some developments in quantum gravity at the null asymptote. Quantization of gravitational data on null infinity and asymptotic graviton states will be discussed.

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**Session Classification:** Boundaries, Symmetries, and Classical aspects