

Structured Light to Quantum Information Science (25+5)

Tuesday, January 14, 2025 3:50 PM (30 minutes)

The propagation of optical waves is traditionally understood as two distinct processes: beam (spatial) and pulse (temporal) propagation. However, spatiotemporal three-dimensional (3D) wave packets—featuring unique combinations of spatial and temporal wave characteristics—open the door to novel phenomena. In this seminar, we will explore the progress made in understanding these 3D optical wave packets, their distinctive behaviors, and their potential future applications in various fields especially in quantum information science.

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