

SEMINAR: A practical and scalable architecture for postselection-free time-bin entanglement

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15:00 to 16:00

Seminar Room

Time-bin encoding has emerged as a promising platform for long-distance quantum communication because of its robustness in fiber-optic propagation and compatibility with existing telecommunication networks. However, scalable implementations and prospective device-independent protocols require practical approaches for both state generation and postselection-free measurements. This talk presents such an architecture for time-bin entanglement, with its performance highlights through demonstrations of quantum key distribution and Bell test experiments

Hosted by: Prof. Dr. Valerio Pruneri