The Center for
Light Matter Interaction
Tel Aviv University

LMI Seminar:

quantum temporal optics

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Wednesday December 24th, 2025, 13:00-14:00

Light refreshments and drinks will be served at 12:30

Auditorium 011, Engineering Classroom Building, Faculty of Engineering, Tel-Aviv University

Abstract: Temporal optics is the temporal equivalent of spatial optics, and it enables ultrafast measurements of temporal events with high temporal resolution. Temporal optics was utilized for measuring ultrafast events beyond what is possible with regular methods. We developed quantum temporal optics devices which can measure with high temporal resolution single-shot quantum events. Moreover, temporal optics can go beyond what is possible with spatial optics, such as negative index devices and quantum elements. In the talk, I will present temporal optics and its adaptation to the quantum world.