



UNIMORE
UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA

Dipartimento di Scienze Fisiche,
Informatiche e Matematiche

Theoretical Physics Seminar

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From Light-by-Light Scattering to N-
Photon Amplitudes

10 October 2024, 12:00 - 13:00

CNR-S3 Seminar Room, Physics building
(MO17), third floor

Abstract

In this talk, I will review light-by-light scattering, exploring its applications and potential for phenomenological detection, such as vacuum birefringence. I will also provide an overview of the current progress in this field. Following this, I will discuss N-photon amplitudes both in vacuum and in the presence of background fields, with a focus on the worldline formalism.

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