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Metrology of Spatio-Temporal Couplings (STC) in Ultra-Intense Laser Pulses for Particle Acceleration

Spatio-Temporal Couplings (STC) of ultra-intense laser pulses can significantly impact relativistic particle acceleration or radiation production, relevant for nuclear photonics applications. This STC experimental study covers the analysis of residual and induced spatio-temporal distortions generated with a fs laser oscillator. Complementary, propagation simulations using real data from high-power laser systems to model and study STCs are developed.

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