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Mathematica expression of Gaussian lasers with temporal or spatial chirp

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Gaussian lasers with temporal or spatial chirp have been used in the manipulation of the electron beam in the high-gain harmonic generation or echo-enabled harmonic generation in free-electron lasers. This paper presents the Mathematica expressions of these lasers. This work is a first step for novel laser-electron manipulation technique in presence of temporal or spatial chirp.

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Footnotes

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