



Contribution ID: 12

Type: **poster**

The Three-dimensional Carrier-envelope-phase Map of Focused Few-cycle Pulsed Gaussian Beams

Monday 1 July 2019 18:15 (2 hours)

We derive an analytical expression for the complete three-dimensional carrier-envelope-phase (CEP) distribution in the focal volume of ultrashort pulsed beams. We show how to tailor the CEP map of mirror-focused and lens-focused few-cycle pulses practically.

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Session Classification: Poster session 1