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Surface High Harmonics Using a Long Focusing Length

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Here we present recent results on Surface High-order Harmonic Generation (SHHG) by using the Jeti200 laser system using long focal length $f/12$ system, with a peak intensity of $>10^{19}$ W/cm² (<3 J, 25fs, single plasma mirror). The experiment examines the ROM harmonic emission efficiency in a multi parametric scan of pulse duration (GVD), laser energy and spatial intensity distribution.

Authors: Mr SHI, Mingyuan (Helmholtz institute Jena); Mr MCHUGH, Ross (Helmholtz institute Jena); Dr BRAENZEL, Julia (Helmholtz institute Jena); COUSENS, S. (Queen's University Belfast); YEUNG, M. (Queen's University Belfast); SCHAEFER, G. (Helmholtz institute Jena); SAEVERT, A. (Helmholtz institute Jena); Prof. ZEPF, Matt (Helmholtz institute Jena)

Presenters: Mr SHI, Mingyuan (Helmholtz institute Jena); Mr MCHUGH, Ross (Helmholtz institute Jena)

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