

08th July 2026 – 13:00 h
CFEL – Building 99, seminar room IV (first floor)

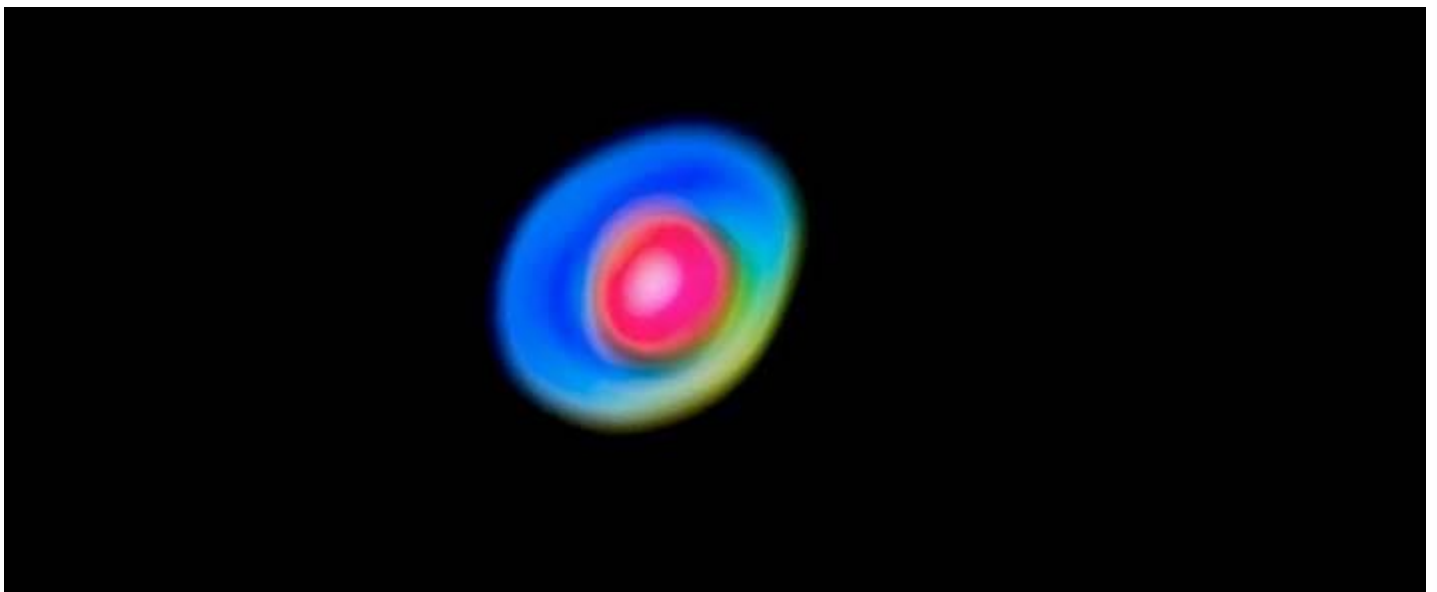
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Recent Advances in Optical Parametric Amplifier Technology at Light Conversion

Optical parametric amplifiers (OPAs) are an indispensable laser accessory for a wide range of scientific applications, from nonlinear microscopy and time-resolved spectroscopy to strong-field physics. By extending ultrafast laser systems into wavelength and pulse duration regimes that are not directly accessible with conventional laser amplifiers, OPAs enable both new experimental capabilities and advanced functions, such as passive carrier-envelope phase stabilization or temporal contrast enhancement in ultra-high-peak-power laser systems.

In this talk, I will discuss how Light Conversion continues to push optical parametric amplifier technology into new parameter spaces, while also highlighting ongoing efforts to improve the long-term reliability, usability, and user-friendliness of Light Conversion OPA systems.



Picture of conical emission and third harmonic radiation from a filament in air generated using a mJ-level 2 μ m optical parametric amplifier by Light Conversion.