



Contribution ID: 243

Type: **oral**

OPCPA System Delivering 5-TW, 2.1-cycle, CEP stable Pulses at 1 kHz Repetition Rate

Tuesday 2 July 2019 11:15 (15 minutes)

We demonstrate a high peak- and average power OPCPA system producing 2.1-cycle pulses at 875 nm. Short pulse duration is achieved by using amplification stages with different nonlinear crystals and different non-collinearity and phase matching angles.

Authors: Dr STANISLAUSKAS, Tomas (Light Conversion); Mr BALČIŪNAS, Ignas (Light Conversion); Mr BUDRIŪNAS, Rimantas (Light Conversion); Dr VEITAS, Gediminas (Light Conversion); Mr GADONAS, Darius (Light Conversion); Dr ADAMONIS, Jonas (Ekspla); Dr MICHAILOVAS, Andrejus (Ekspla); BORZSONYI, Adam (ELI-ALPS, ELI-HU Non-Profit Ltd.); TÓTH, Szabolcs (ELI-ALPS, ELI-HU Non-Profit Ltd.); CSONTOS, János (ELI-ALPS, ELI-HU Non-Profit Ltd.); Dr OSVAY, Károly (ELI-ALPS, ELI-HU Non-Profit Ltd.)

Presenter: Dr STANISLAUSKAS, Tomas (Light Conversion)

Session Classification: New installations and next generation drivers for ultrashort XUV radiation