

10 mJ-level Picosecond OPCPA Pump Laser Based on Room Temperature Hybrid Yb:YAG Amplifier System

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On the way to developing 100W and 10 mJ class laser we demonstrate a hybrid laser system based on fiber laser seed source and chirped pulse amplification in free-space Yb:YAG cascade. The system is capable of delivering 13 mJ energy 1 ps duration pulses at 20 Hz repetition rate.

Primary authors: KAZAKEVIČIUS, Aivaras (National Center for Physical Sciences and Technology, Vilnius, Lithuania); BUROKAS, Raimundas (National Center for Physical Sciences and Technology, Vilnius, Lithuania); DANILEVIČIUS, Rokas (Ekspla ltd., Vilnius, Lithuania); MICHALOVAS, Andrejus (National Center for Physical Sciences and Technology, Vilnius, Lithuania)

Presenter: KAZAKEVIČIUS, Aivaras (National Center for Physical Sciences and Technology, Vilnius, Lithuania)

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