

Passively Q-switched Er:YAP laser generating 21 ns pulses at 2.9 μm

Tuesday, 30 August 2022 12:00 (2 hours)

A passively Q-switch Er:YAP laser, emitting 21.8 ns long (FWHM) pulses with energy 0.54 μJ and repetition rate 41.6 kHz at 2.9 μm is presented. In a free-running regime, the Er:YAP laser reached maximal output mean power of 200 mW with 25.5 % slope efficiency.

code

Primary authors: ŠVEJKAR, Richard (Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering, Prague, Czech Republic); POPELOVÁ, Dominika (Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering, Prague, Czech Republic); ŠULC, Jan (Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering, Prague, Czech Republic); JELÍNKOVÁ, Helena (Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering, Prague, Czech Republic)

Presenter: ŠVEJKAR, Richard (Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering, Prague, Czech Republic)

Session Classification: Lunch and Poster Session 1