**5 J, 200 Hz Nd:YAG laser system with high beam quality**

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### Abstract (300 word limit)

An all-solid-state Nd:YAG laser system with high beam quality and excellent energy stability has been developed for Thomson scattering diagnosis. A 1.7 times diffraction limited output beam with a pulse energy of 5 J at 1064 nm is achieved for the first time with a pulse duration of 6.6 ns (FWHM) at 200 Hz repetition rate. The output energy fluctuation is only 0.71 % RMS over 6000 shots.

### Images ()

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Biography (150 word limit)

Jie Li joins Academy of Opto-Electronics as an associate researcher in Chinese Academy of Sciences (CAS). He received his BS from University of Science and Technology in China and his Ph.D. from the College of Optics & Photonics at the University of Central Florida in USA. Jie’s primary research interests are in the field of Ultrafast Laser and Attosecond Science. He and his colleagues had developed a CEP-stabled, 3 mJ, 1.7 micron OPCPA laser system for driving isolated attosecond pulse in the soft X-ray spectrum range and demonstrated isolated 53 attosecond pulse with 300 eV photon energy.

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References: