News Release

For immediate release
17 July 2008

Picosecond Pulsed Diode Laser at 485 nm (turquiose)

PicoQuant GmbH announces the release of the long-awaited 485 nm picosecond pulsed diode laser head. The availability of this new wavelength opens the door for entirely new applications in bioanalytics, biochemistry, genetics, semiconductor characterisation and quality control. The new laser head is ideal for exciting fluorescent proteins like GFP and widely used fluorescent dyes such as Fluorescein, Atto 488 or Alexa 488 and fills an urgent demand for alternatives to frequency doubled solid state lasers or argon-ion lasers in applications like Fluorescence Microscopy.
With pulse durations as short as 80 ps, the pulsed laser head perfectly matches the time resolution of mainstream detectors, yet at a price much lower than that of commonly used mode-locked lasers. The new laser head is also available in a dual mode version, that allows picosecond pulsed as well as continuous-wave operation.

The PicoQuant diode laser family (LDH Series) now covers the wavelength range from 375 to 485 nm and from 635 to 1500 nm. All laser heads come with collimator optics that can optionally be fitted with optical fibres. The new laser head is compatible with the PicoQuant PDL family of diode laser drivers (PDL Series).

Technical Data

Center Wavelength 485 nm ± 10 nm
Spectral width 7 nm (FWHM) typ.
Repetition rate from single shot to 40 MHz
Pulse width < 80 ps (FWHM) at average power 0.5 mW at 40 MHz
Pulse width < 300 ps (FWHM) at average power 1.0 mW at 40 MHz
Peak power up to 200 mW
a higher power version will be available in late 2008

see also http://www.picoquant.com/ldh/ldhseries.htm

Attachement
picture as xxx.file, dpi etc..... to be completed

Contact
Marketing:Anika Vöge, mkt@picoquant.com
Technical questions: Kristian Lauritsen, info@picoquant.com

About PicoQuant GmbH

PicoQuant GmbH is a research and development company, founded in 1996 and based in the Technology Park Berlin-Adlershof, Germany. Furthermore PicoQuant Photonics North America Inc. (PQPI) was established in April 2008. The company is leading in the field of Single Photon Counting Applications. The product line includes pulsed light sources, photon counting instrumentation, fluorescence lifetime spectrometer and time-resolved confocal microscopes. It employes around 40 people.