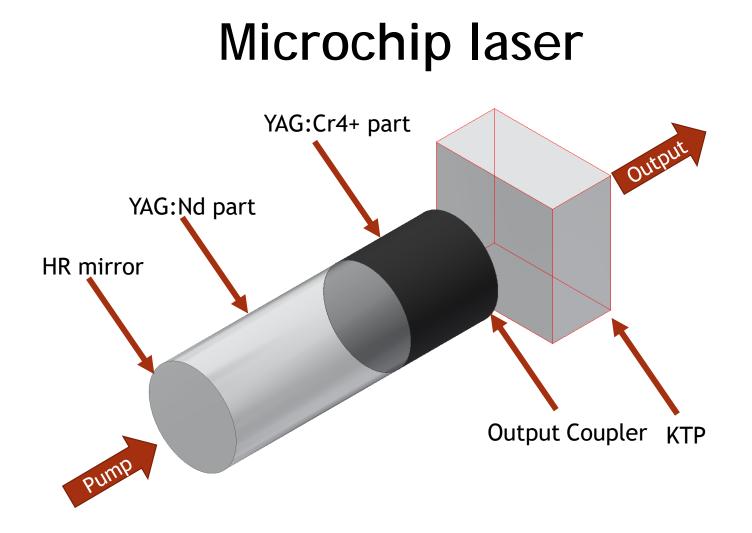
Compact solid - state pulsed laser for calibration of the GVD data acquisition system

Alexander Shestakov

LLC SIC "ELS-94"

Requirements for laser source

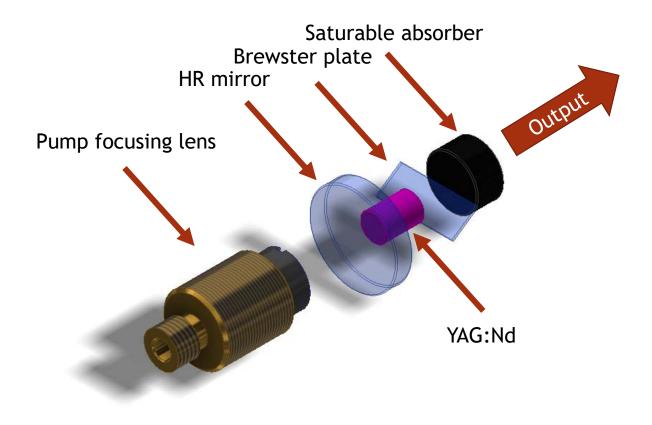
- •Short pulse (<1ns)
- Peak power > 100kW
- •Wavelength fits the window of transparency of water

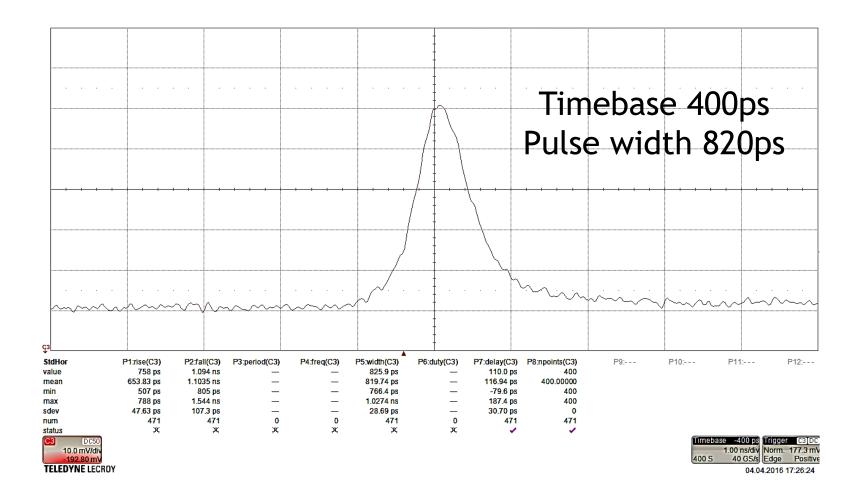


Microchip laser

PROs	CONs
✓ Simple design	✓ Instability
✓ Great reliability	

Scheme of the laser



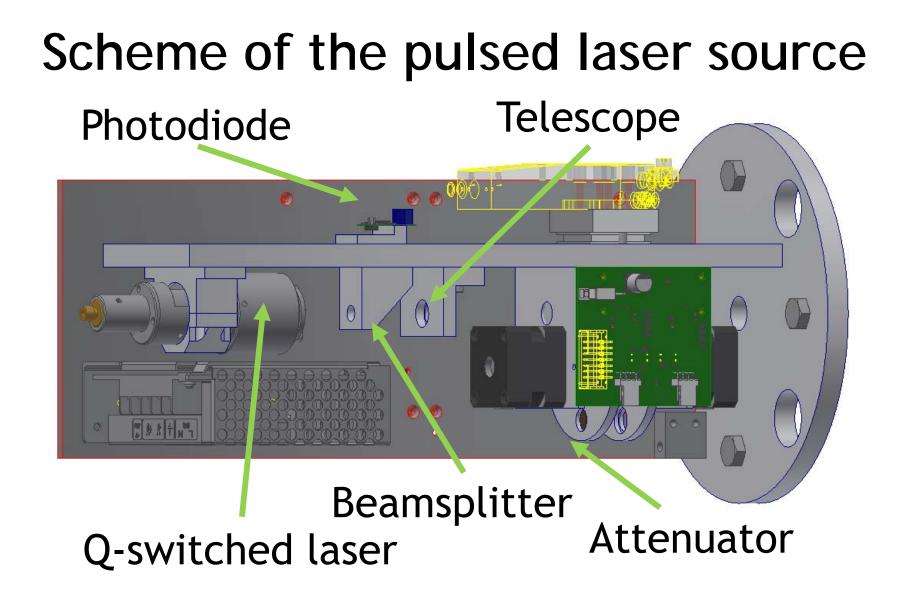


CAD model of the laser head



Photo of the laser head





CAD model of the pulsed laser source

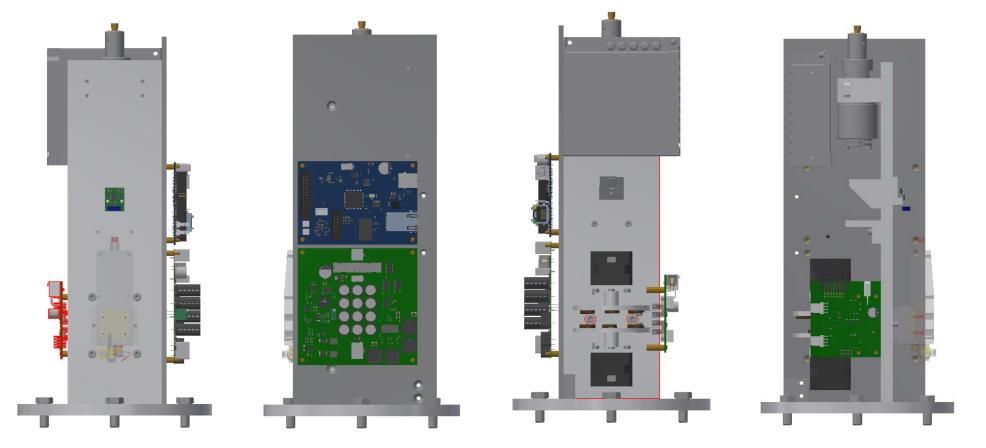
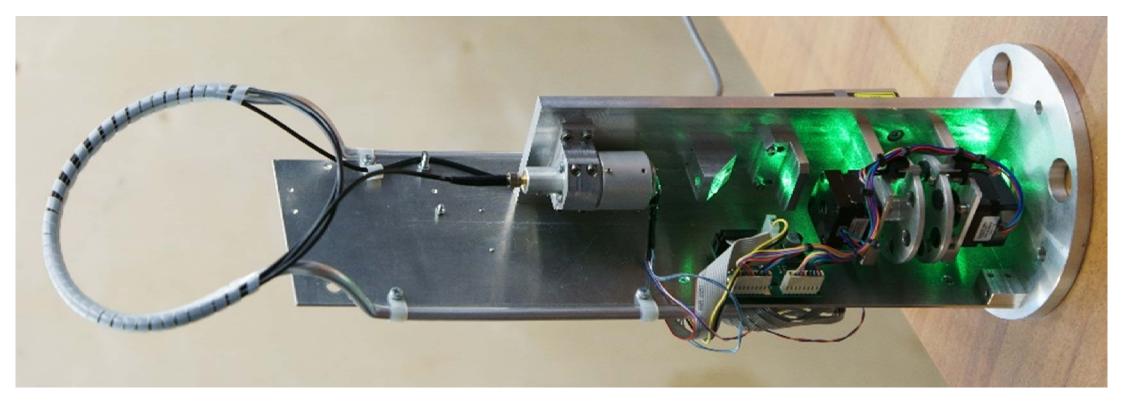


Photo of the pulsed laser source



Thank You!



Wavelength: 1064nm Energy: >1 mJ Pulse width: <1ns Frequency: up to 300Hz

Wavelength: 532nm Energy: >0,5mJ Pulse width: <1ns Frequency: up to 300Hz