



HIGH-POWER NANOSECOND SOURCES AT 2 μm

An emission wavelength of 2 μm as generated by Thulium-doped fiber lasers has enabled a multitude of new applications. AFS offers the highest performance among commercially available 2- μm fiber-laser systems.

APPLICATIONS

- Materials processing
- Micro- and nano-machining

MORE INFORMATION

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	Q-switched Tm-doped fiber laser
Wavelength*	Tunable between 1860 nm and 1960 nm
Repetition rate*	10 kHz
Pulse energy*	up to 500 μJ
Average power*	up to 5 W
Pulse duration	<50 ns
Polarization	linear
Beam quality	$M^2 < 1.2$
Average power stability	< 1% RMS
Pulse energy stability	< 1% RMS
Beam pointing	< 20 μrad RMS

*parameters can be customized in a wide range

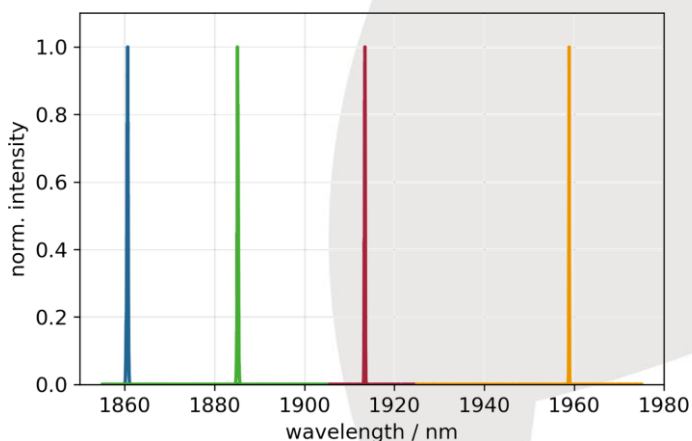


Fig.1 Examples for narrow-linewidth Q-switch operation tunable in a wide spectral range.

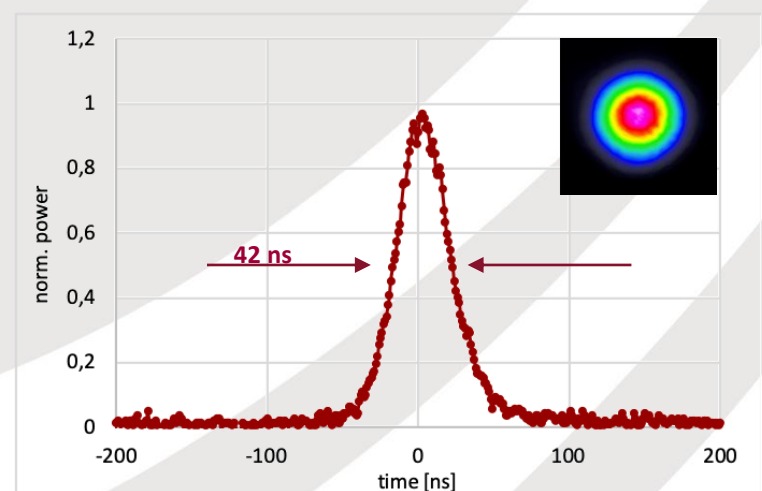


Fig.2 Output pulse with 42 ns duration at >500 μJ pulse energy and near diffraction-limited beam quality (inlet).