customized.

Innovative laser systems tailored by our experts to advance your research!



Cutting-edge | Customized | Reliable | Simple & Turn-key

Advanced laser system for ultrafast pump-probe spectroscopy with kHz scanning rates

- · All electronic pump-probe delay with < 100 fs timing jitter
- Compatible with all fiber laser from TOPTICA
- · Flexible scanning window up to 100 ns using pulse picking
- Degenerate pump-probe spectroscopy
- · Extremely stable, compact, flexible, and turn-key

Contact our experts and discuss your laser solution.





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FemtoFiber ASOPS



DANGER – VISIBLE AND INVISIBLE LASER RADIATION, AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION, CLASS 4 LASER PRODUCT, EN60825-1:2014

Specifications	
Laser output	General Specification
Wavelengths	1560 nm
Power	> 5 mW (seed output for high power amplifiers)
Pulse duration	< 500 fs
Repetition rate	80 MHz (electronically synchronized oscillators)
#Output ports for each oscillator	1 (up to 4 output ports possible)
Relative offset frequency	-5 kHz 5 kHz (between both oscillators)
Total scan window by ASOPS	12.5 ns (can be increased by pulse picking, see options)
Time increment using ASOPS	0.16 fs @ 1 Hz offset frequency, 780 fs @ 5 kHz offset frequency
Timing jitter	< 100 fs (10 Hz - 500 kHz)
Amplitude modulation (optional)	Pulse-picking down to 40, 20, 10 MHz (others upon request)
Amplifier options	Can be combined with all fiber lasers from TOPTICA

Specifications are subject to change without further notice

In my eyes, the FemtoFiber ASOPS laser solution from TOPTICA is the best possible laser system for our research on spin dynamics with highest sensitivity. By combining the flexibility and stability of the fiber lasers with the pump-probe detection speed of the ASOPS electronics, we can perform cutting-edge research that was previously not possible like the recent detection of magnon polarons.

Prof. Manfred Bayer,

TU-Dortmund, Germany

