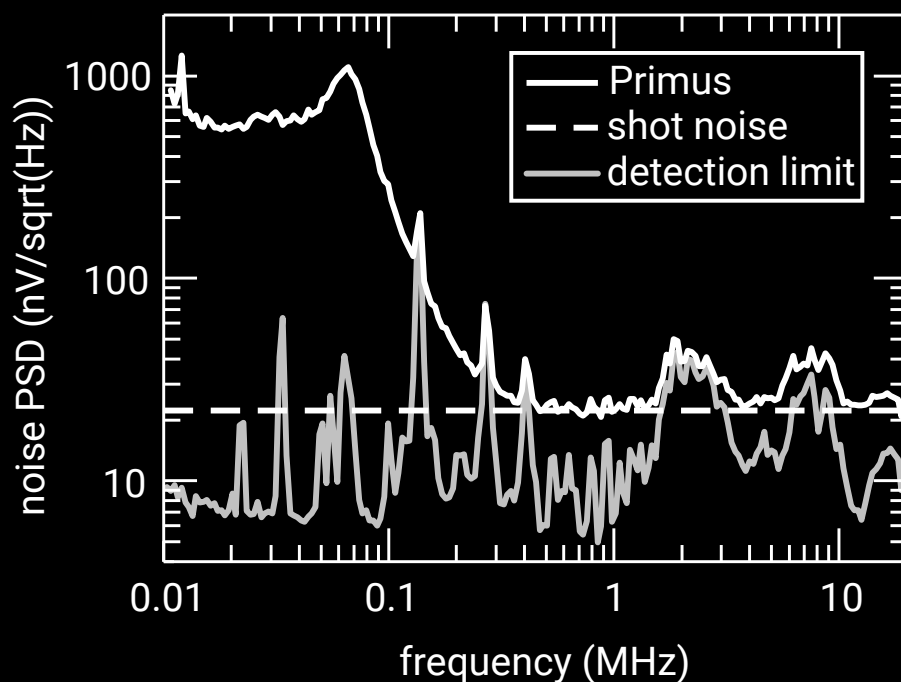
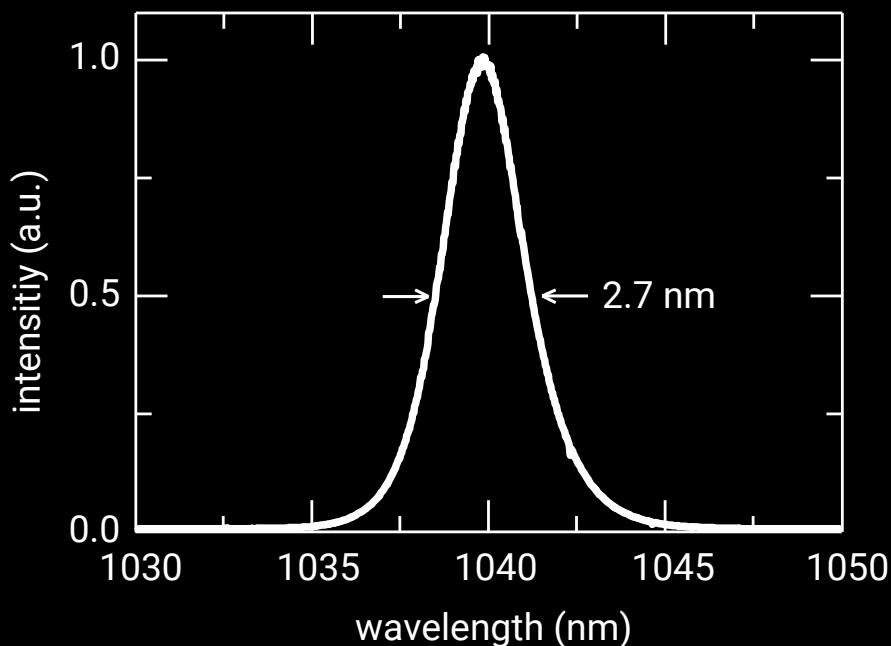


Primus

The Stuttgart Instruments Primus is our high power femtosecond oscillator. It provides a high average output power combined with a superior low noise level, even reaching the shot noise limit above 300 kHz. The entire system including the pump diodes is encapsulated in a solid, water-cooled housing, thus a high long-term stability and robustness against external perturbations is achieved. The large output power makes the Primus ideally suitable as pump source for frequency converters. The Stuttgart Instruments Alpha-HP or two independent Alphas can be directly integrated into the housing of the Primus. Also, frequency doubling is available.



Primus

Specifications

Wavelength	1035 ± 10 nm
Output Power	> 6 W
Repetition rate	40 MHz
Pulse width (FWHM)	< 550 fs
Time-bandwidth prod.	0.34
Pulse energy	> 150 nJ
Peak power	> 270 kW
Power stability (rms)	< 0.3 %
Warm-up time	30 min.

