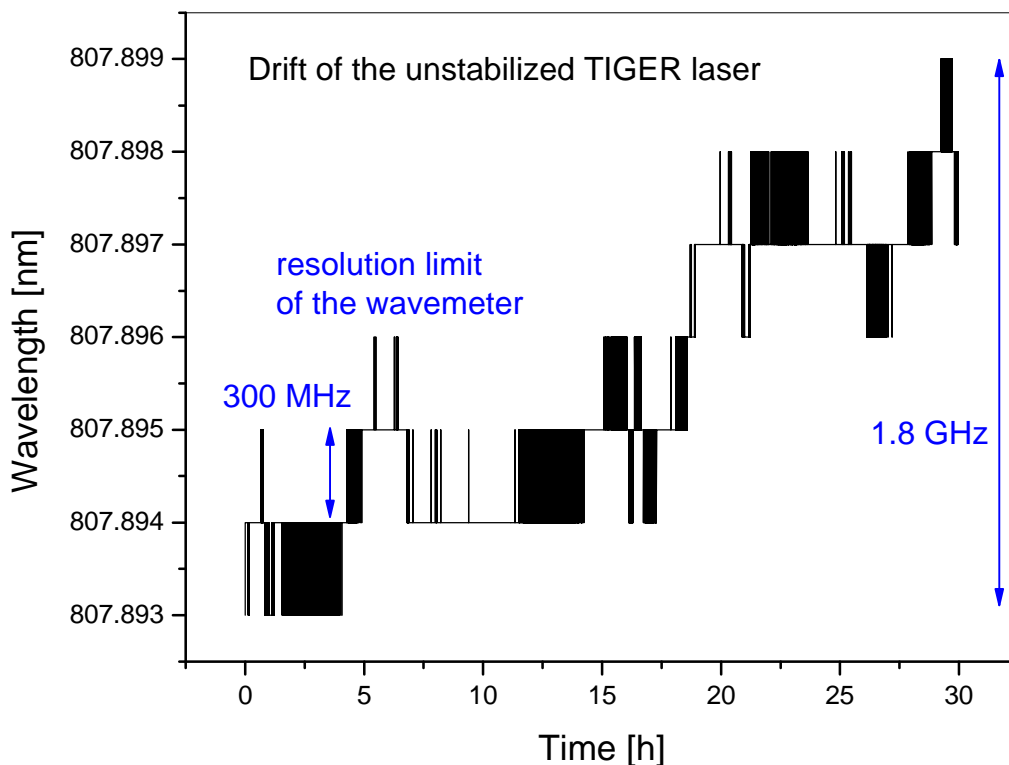


Thermal Management and Wavelength Stability of High Power Tunable Diode Laser Systems

For our high power tunable diode laser systems, we have designed an excellent thermal management. We do not use the same mount for regular diodes and the high power diode. In more detail, the high power diode is soldered into a collimator which is gold coated copper which is specially designed for high heat conductivity.

We recommend to operate the Tiger laser as well as the Cougar laser head mounted at a heat sink. A suitable heat sink would be an optical table with a surface temperature below 28°C. In case you do not can meet this requirement, we may offer you a mounting plate which is prepared for water cooling as an option.



Enclosed please find a measurement of the wavelength drift of the free running Tiger series laser. The measurement was performed with a Burleigh wavemeter. There was no wavelength stabilization applied to this laser. These data show the excellent thermal management of our Tiger series lasers.

With wavelength stabilization (Lockbox), the wavelength drift is below the measuring accuracy of the Burleigh wavemeter. Please contact us for further details.

Document: <http://data.sacher-laser.com/techdocs/ThermalManagement.pdf>
 Note: Specification are subject to change without further notice

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