Radiant Dyes Laser & Accessories GmbH

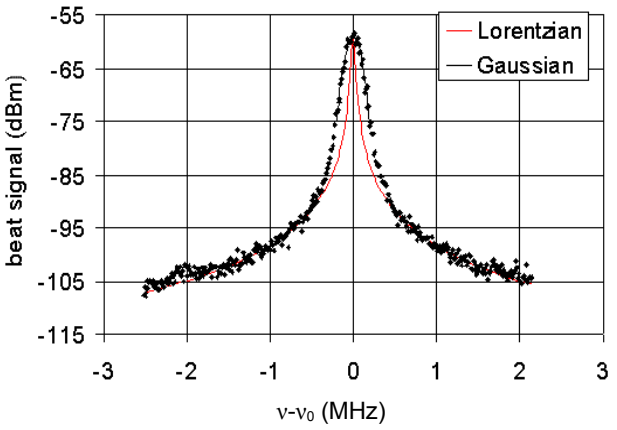
Tunable Narrowband Diode Laser

Interference-filter-stabilized with external cavity

Specifications:

- Very small Bandwidth (down to 30kHz)
- Typical Wavelength: 780nm, 798nm, 852nm (others on demand)
- Typical Output Power: > 50 mW
- Tunability: 7 Ghz Mode-Hop Free by Piezo Scanning, up to 20nm with mechanical tuning and Mode-Hopping
- Design by Observatoire de Paris

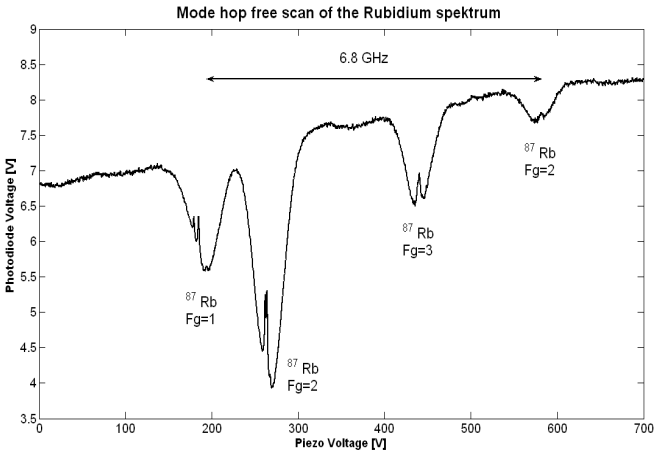
Power Spectrum of the Beat Signal between two Lasers



Advantages:

- Very high robustness against mechanical and thermal disturbances
- Fixed Output Beam
- Application under extreme conditions, e.g. in space

Typical Application: Rubidium Spectrum measured with NarrowDiode Laser by Radiant Dyes



Typical Applications:

- High Resolution Spectroscopy
- Raman Spectroscopy
- Laser Cooling

Optional Features:

- Amplification
- Frequency doubling

Radiant Dyes Laser Acc. GmbH, Friedrichstr. 58, Germany-42929 Wermelskirchen

Tel.: +49 2196-81061 + 92685, Fax +49 2196-3422

http://www.radiant-dyes.com / E-mail: info@radiant-dyes.com

Radiant Dyes Laser & Accessories GmbH

Tunable Narrowband Diode Laser

Our new NarrowDiode Laser is a small sized and low priced external cavity Diode Laser. The wavelength separation is realized by a low loss interference filter instead of the common diffraction grating.

Due to this new design, the Laser is characterized by a very **high robustness** against mechanical and thermal disturbances.
Another advantage of our Laser is the **fixed output beam**, that leads to a very **high stability,** because the direction and position of the output beam are almost independend from the wavelength.

Furthermore, the Laser guarantees a very **small bandwidth** and a very **large tunability** at the same time.

Radiant Dyes Laser Acc. GmbH, Friedrichstr. 58, Germany-42929 Wermelskirchen
Tel. +49 2196-81061 + 92685, Fax +49 2196-3422
http://www.radiant-dyes.com / E-mail: info@radiant-dyes.com