



## Laser electronics for ultra-stable lasers

The company neoLASE GmbH developed laser electronics to operate the most stable lasers of the world.

For the field of gravitational wave detection one of the world most stable laser systems starts its test operation a few weeks ago. The system was built in cooperation with the Laser Zentrum Hannover e.V. and the Max-Planck-Institute for Gravitational Physics, Albert-Einstein-Institut as client.

The Company neoLASE developed a specific laser electronic to control physical parameters like temperature, electrical current, optical power or an optical spectrum to ensure an optimized laser operation. The systems for example control 32 laser diodes with up to 1500 W output power in temperature, current and spectral emission. The monitoring of the laser resonator length and a user friendly touch-screen display are further highlights of the system. Subdivided in more than ten 19" units the system allows easy replacement and handling in case of service.

Beginning of next year the system will be integrated in the US gravitational wave detector LIGO and will help to increase the sensitivity for the detection of gravitational waves.

For further information visit [www.neolase.com](http://www.neolase.com) or contact [info@neolase.com](mailto:info@neolase.com).