

HiLASE LASER CENTER

The HiLASE Research Center is an excellent pan-European infrastructure in laser research and development.

"Super Lasers for the Real World" - this is the core mission of HiLASE. The HiLASE team is dedicated to developing a new generation of high energy diode-pumped solid state laser systems with high repetition rates. With this technology, lasers are significantly stronger, more powerful, more compact, and more stable than currently available devices.

"Applications for the high-tech industry" - the greatest added value of the center is the unique combination of experimental laser development and advanced industrial applications under one roof. Thanks to close cooperation with high-tech companies and knowledge of their needs, the HiLASE center focuses mainly on the preparation of functional materials, increasing the resistance of the material and on laser micro-processing.

Top-class laser systems - one of our most important devices is the unique "Bivoj" laser system, which is the strongest laser in its category due to its average power of over 1 kW. The "PERLA" Compact Picosecond Thin Disc Laser Laser Platform delivers high-power laser beams in wavelengths from mid-infrared to ultraviolet, making it widely usable in industry.

The HiLASE Center is a part of the Institute of Physics of the Czech Academy of Sciences and is the recipient of the prestigious HiLASE Center of Excellence, the first ever call of the European Commission Horizon 2020 program "WIDESPREAD Teaming".

Contact

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