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Department of Electrical, Electronic and Information Engineering

Laser Science Area (Institute of Laser Engineering)

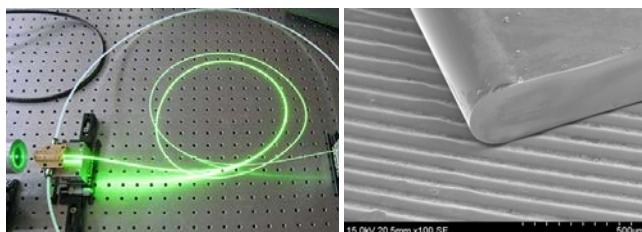
Professor : Junji Kawanaka
Associate Prof. : Shigeki tokita
Assistant Prof. : Li Zhaoyang

“The Power Laser”

Go ahead,

Individual
「Supreme」 Power
Laser

Mid-IR Laser

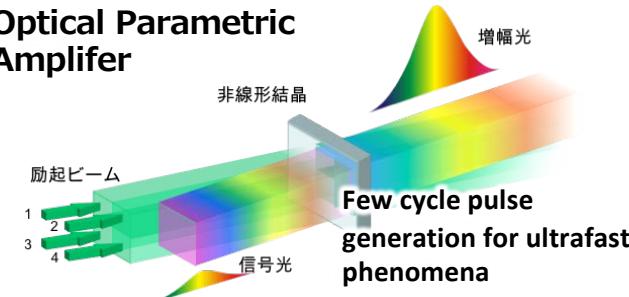


Er-fibre laser Laser process of glass
Practical Mid-IR fiber laser under collaboration with a company

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Ultrahigh Peak Power Laser

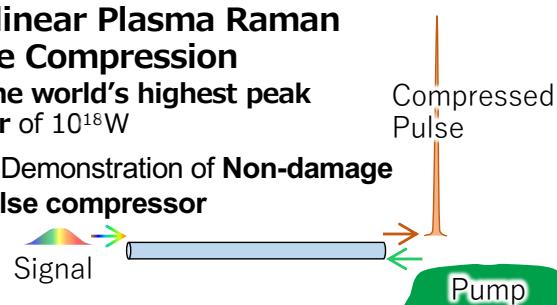
Optical Parametric Amplifier



Nonlinear Plasma Raman Pulse Compression

For the world's highest peak power of 10^{18} W

- ✓ Demonstration of Non-damage pulse compressor

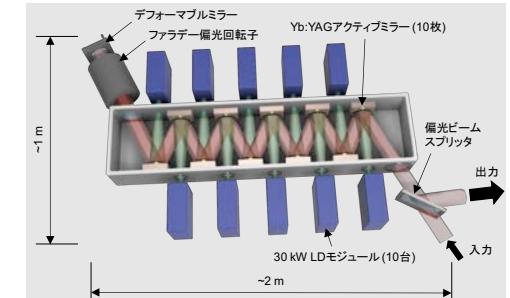


Ultra-Broadband Laser Amplification System



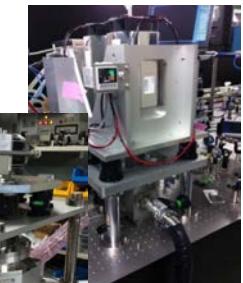
Innovative Power Laser

Cryogenic Active-Mirror amplifier for the world's highest power ($100\text{J} \times 100\text{Hz}$)



Laser Ceramics

Cryogenic Cooling Technology



Novel power amplifier