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Development of 10PW Super Intense Laser Facility at Shanghai

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We will introduce the 10PW laser project SULF (Shanghai Superintense Ultrafast Laser Facility), including the design of the laser facility and the potential applications of the laser facility in physics and chemistry researches.

As a first step, we have demonstrated the generation of 5.3PW, 24fs 800nm laser pulses from a CPA laser system where a high gain 150 mm Ti:sapphire amplifier with 202J, 70nm (FWHM) output is measured.

We will also outline the future plan towards a 100PW laser facility at Shanghai.

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