

RESULTS AND LESSONS FROM FLASH

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Abstract

Since first lasing beginning of 2005, we have continuously extended the wavelength range and improve the performance of FLASH. With regular blocks of accelerator and FEL studies and user beam time, we have now covered a wavelength range between 13 and 45 nm, at power levels between 5 and 50 μ J. Depending on user demands, we have delivered single bunch or multiply bunches at repetition rates of 1 MHz or 250 kHz. The latest results of the machine performance will be shown. In addition, the specific problems that have been encountered and our solutions during the past 18 months will be discussed. Finally, future plans for FLASH will be presented.

**PAPER NOT
AVAILABLE**