Extreme Light Scientific and Socio-Economic Outlook



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Control of temporal intensity profile for PW laser pulses

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We present theoretical and experimental results on enhancement of temporal intensity profile of PW laser pulses. Techniques of peak power increasing based on self-phase modulation, second harmonic generation and cascaded quadratic nonlinearity effects will be discussed. The specific of its implementation for modern powerful laser facilities is investigated and results will be demonstrated.

Primary author: Prof. KHAZANOV, Efim (IAP RAS)

Co-author: Prof. MOUROU, Gerard (IZEST)

Presenter: Prof. KHAZANOV, Efim (IAP RAS)

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