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# Temporal recompression and intensity contrast ratio enhancement of high energy femtosecond laser pulses

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A possibility of implementation nonlinear optical effects to pulse shortening and temporal intensity contrast ratio enhancement of high energy ( $\sim$ kJ) femtosecond laser pulses will be discussed. Experimental results on temporal recompression from 57fs to 22 fs in a part of a petawatt level laser beam at laser system PEARL will be presented. Theoretical analyze of an influence of a residual spectral phase on Thin Film Compression technique will be considered.

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