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عنوان سخنرانی

Chirped Pulse Amplification The Nobel Prize in Physics 2018

چکیده

The Nobel Prize in Physics 2018 was awarded "for groundbreaking inventions in the field of laser physics" with one half to Arthur Ashkin "for the optical tweezers and their application to biological systems", the other half jointly to Gérard Mourou and Donna Strickland "for their method of generating high-intensity, ultra-short optical pulses."

This talk will be about the breakthrough technique in high power laser pulse amplification named CPA (Chirped pulse amplification). CPA is a technique for amplifying an ultrashort laser pulse up to the petawatt level with the laser pulse being stretched out temporally and spectrally prior to amplification. The amplification mechanism and the limits of the technique are discussed.

مکان

تالار دکتر جناب

(آمفی تئاتر دانشکده فیزیک)