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PRL 114, 115001 (2015) PHYSICAL REVIEW LETTERS

Terahertz Acoustics in Hot Dense Laser Plasmas

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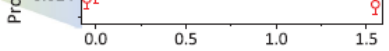
(Received 4 Novemb



APPLIED PHYSICS LETTERS 109, 174101 (2016)

Efficient transport of femtosecond laser-generated fast electrons in a millimeter thick graphite

Amitava Adak,[1] Prashant Kumar Singh,[1] Amit D. Lad,[1] Gourab Chatterjee,[1] Malay Dalui,[1] P. Brijesh,[1] A. P. L. Robinson,[2] John Pasley,[3,2] and G. Ravindra Kumar[1,a)]
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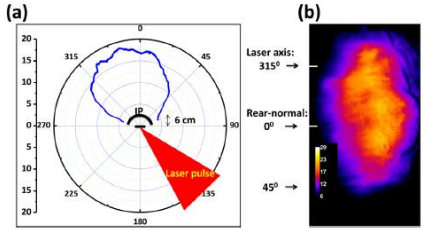

FIG. 3. (a) Polar plot for the angular distribution of the hot electrons emitted from the rear side of the graphite target, calculated by taking the vertical line-out from the IP-image in (b). The color bar in the IP image indicates the flux in arbitrary units.

PHYSICS OF PLASMAS 24, 072702 (2017)

Controlling femtosecond-laser-driven shock-waves in hot, dense plasma

Amitava Adak,[1] Prashant Kumar Singh,[1] David R. Blackman,[2] Amit D. Lad,[1] Gourab Chatterjee,[1] John Pasley,[2,3] A. P. L. Robinson,[3] and G. Ravindra Kumar[1,a)]

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Magnetic turbulence in a table-top laser-plasma relevant to astrophysical scenarios

Gourab Chatterjee[1,†], Kevin M. Schoeffler[2], Prashant Kumar Singh[1], Amitava Adak[1], Amit D. Lad[1], Sudip Sengupta[3], Predhiman Kaw[3], Luis O. Silva[2], Amita Das[3] & G. Ravindra Kumar[1]

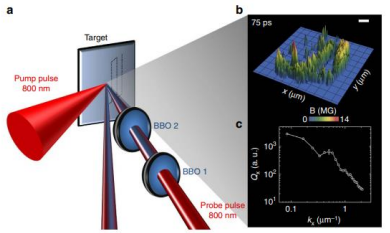

Figure 1 | Experimental set-up and representative magnetic-field polarigram and turbulent energy spectrum. (a) Schematic of the experimental set-up.

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Contrasting levels of absorption of intense femtosecond laser pulses by solids

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The absorption of ultraintense, femtosecond laser pulses by a solid unleashes relativistic electrons,