

Title (en)
LASER PLASMA LENS

Title (de)
LASERPLASMALINSE

Title (fr)
LENTILLE LASER PLASMA

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Application
EP 15788096 A 20151104

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Abstract (en)
[origin: WO2016071413A1] The invention relates to a device (10) for collimation or focusing of a relativistic electron packet (12), obtained in particular by laser-plasma acceleration, comprising a gas cloud (14) and a laser capable of emitting a laser pulse (18) focused in the gas cloud (14) in order to create therein a wave of focusing electric and magnetic fields (22). The invention also relates to a device for emission of a collimated or focused relativistic electron packet. The invention further relates to a collimation or focusing method for a relativistic electron packet, and to methods for emission of a collimated or focused relativistic electron packet.

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Citation (examination)
J. S. LIU ET AL: "All-Optical Cascaded Laser Wakefield Accelerator Using Ionization-Induced Injection", PHYSICAL REVIEW LETTERS, vol. 107, no. 3, 1 July 2011 (2011-07-01), US, XP055669811, ISSN: 0031-9007, DOI: 10.1103/PhysRevLett.107.035001

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