

Title (en)  
DEVICE AND METHOD FOR CHARACTERISING A FEMTOSECOND LASER PULSE

Title (de)  
VORRICHTUNG UND VERFAHREN ZUR CHARAKTERISIERUNG EINES FEMTOSEKUNDEN-LASERIMPULSES

Title (fr)  
DISPOSITIF ET PROCEDE DE CARACTERISATION D'UNE IMPULSION LASER FEMTOSECONDE

Publication  
**EP 3278407 A1 20180207 (FR)**

Application  
**EP 16713865 A 20160330**

Priority  
• FR 1552704 A 20150331  
• EP 2016056913 W 20160330

Abstract (en)  
[origin: WO2016156391A1] The invention relates to a device for characterising a laser pulse (Pu), comprising at least: - a Fresnel biprism (BPF) that separates an incident laser beam; a detector (CAM) comprising at least one linear semiconductor detector disposed in an overlap zone in which the separated beams interfere and generate a trace by absorption of two photons of at least two beams separated by the Fresnel biprism, said generated trace comprising information characterising the laser pulse (Pu); and a computer (K) that processes a signal from the detector (CAM), produced by the generation of the trace, in order to deduce therefrom a laser pulse duration.

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