

From 18 to 30 September 2017

Advanced Course of Fundamentals on Laser-Plasma Physics

30 hours in afternoon shift

Professors:

- Dr. LUCA VOLPE
(CLPU-USAL Chair)
- Dr. GIANCARLO GATTI
(CLPU, Head of Scientific Division)
- Dr. J. JAVIER HONRUBIA
(University of Madrid)

Place: Hospedería Fonseca.
Universidad de Salamanca. SPAIN
more info: www.clpu.es/advanced_course
email: courses@clpu.es

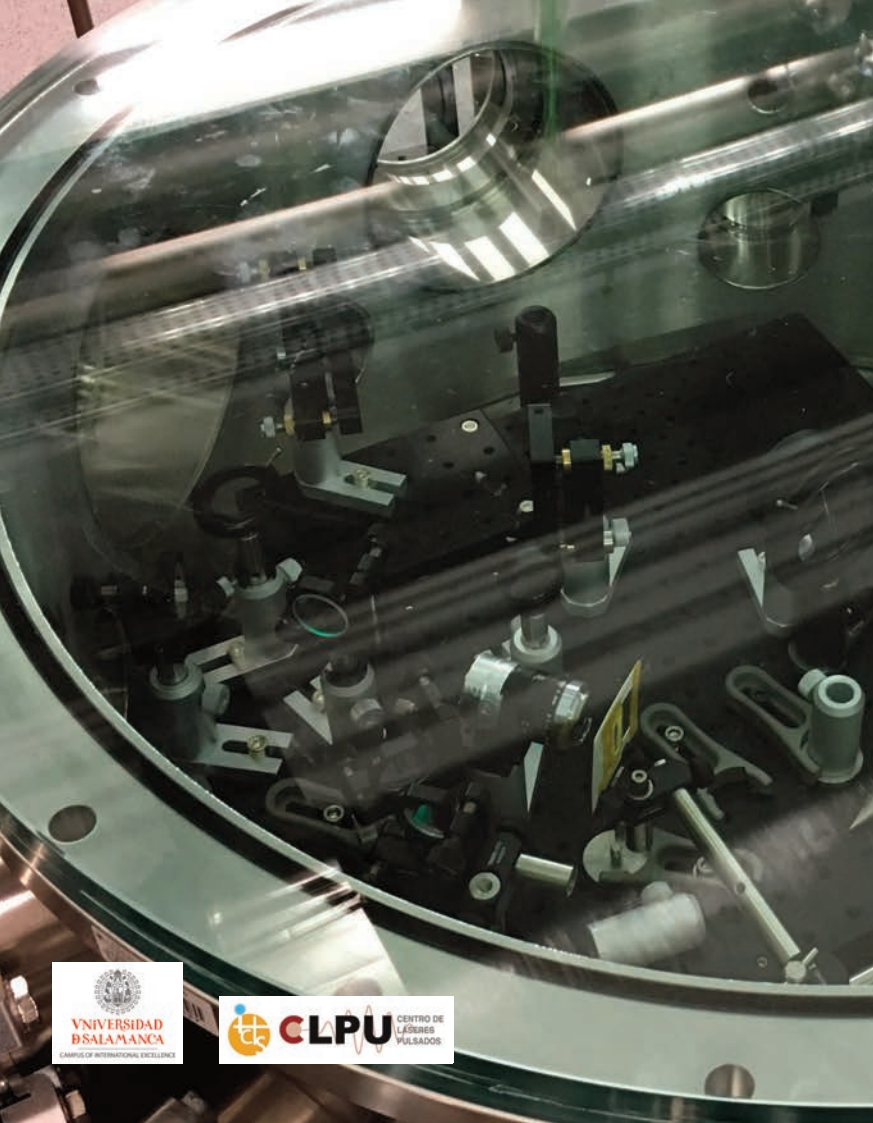


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2 ECTS
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Laser-driven plasma is the primary subject of investigation in the modern High power laser-facilities distributed all over the European community. The Centro de Láseres Pulsados (CLPU) is one of the most representative facilities in this area and at the moment is operating a 200 TW system and finalizing the implementation of 1 PW system. Both the systems work at 1-10 Hz. The relevant presence of CLPU and the approaching of the first experimental campaign is emerging the necessity of a more specific formation in plasma physics and more in laser-plasma physics. The course is divided In three parts:

- i) the first aimed to give a first clear theoretical picture of what is a “plasma state” and what are the relevant parameters to characterize it,
- ii) the second aimed to study plasma self interaction and plasma wave propagation and charged particle acceleration and transport in plasma media,
- iii) the third devoted to describes the most relevant technical and human society laser-plasma-based applications. A fourth part devoted to practical training will be organised at the Centro de Láseres Pulsados and it will consist on direct involvement into experimental campaign on the two operating systems VEGA 1 and VEGA 2.

More details on www.clpu.es/advanced_course