

## IV Users Meeting

### High Intensity laser Physics beyond particle acceleration

*Besides accelerating particles, what else can be done with a laser?*



#### Tuesday, December 2<sup>nd</sup>

- 9:00 – 9:40 Luis Roso, Alicia V. Carpentier y Carlos Salgado (Centro de Láseres Pulsados) *Welcome*
- 9:10 – 9:40 Álvaro Peralta (Centro de Láseres Pulsados) *IV CLPU Users Meeting Introduction*
- 9:40 – 10:30 Juan José Gómez Cadenas (IFIC) *A program towards Barium tagging in HPXe chambers*
- 10:30 – 11:20 Motohiko Yoshimura (Okayama University) *Towards neutrino mass spectroscopy using atoms: theoretical aspects*
- COFFEE BREAK [11:20 – 11:50]
- 11:50 – 12:40 Akihiro Yoshimi (Okayama University) *Towards neutrino mass spectroscopy using atoms: experimental aspects*
- 12:40 – 13:30 Wendell Hill, III (University of Maryland) *The phylogeny of laser induced proton acceleration: a novel way forward*
- LUNCH TIME [13:30 – 15:30]
- 15:30 – 16:20 Ángel Paredes (Universidad de Vigo) *Exploring the quantum vacuum with ultraintense lasers*
- 16:20 – 17:10 David Nóvoa (Max Plank Institut) *The extreme photonic gauge: characterizing extreme high vacuum with ultraintense lasers*
- COFFEE BREAK [17:10 – 17:40]
- 17:40 – 18:30 Andrzej Bartnik (Military University of Technology) *Photoionized plasmas driven by laser-produced plasma EUV sources*

#### Wednesday, December 3<sup>rd</sup>

- 9:00 – 9:50 Pedro Velarde (Instituto de Fusión Nuclear-UPM-) *X Ray sources driven by ultrafast laser pulses*
- 9:50 – 10:40 Carlos Guerrero (Universidad de Sevilla) *Physics with neutron beams for basic Science and Applications*
- COFFEE BREAK [10:40 – 11:10]
- 11:10 – 12:00 Andrea Sgattoni (Istituto Nazionale di Ottica) *Laser-matter interaction: from ion acceleration to high field plasmonics*
- 12:00 – 13:30 Round Table (*Juan José Gómez Cadenas, Daniele Tommasini, Wendel Hill, Álvaro Peralta*)
- LUNCH TIME [13:30 – 15:30]
- 15:30 – 16:20 Daniele Margarone (ELI beamlines) *ELI-Beamlines: basic science and applications*
- 16:20 – 17:10 José Ángel Villar (Laboratorio Subterráneo de Canfranc) *Science & Technology at the Canfranc Underground Laboratory*
- Evening *Optional visit to CLPU's facilities*

