



WELCOME !
to this LA³NET Workshop
Carsten P. Welsch

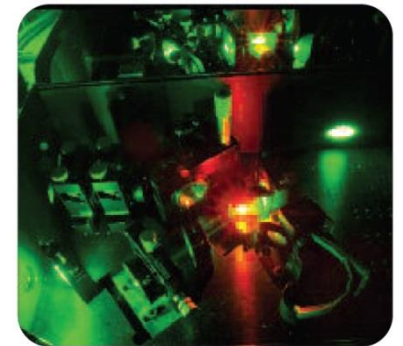
- Laser Applications for Accelerators – A Marie Curie Network

- 19 ESRs
- 36 Partner Institutions
- 4.6 M€

The LANET logo features the word "LANET" in a bold, blue, sans-serif font. A stylized blue lightning bolt is positioned between the "A" and "N". To the right of the text, there are five yellow stars arranged in a semi-circular arc, similar to the European Union flag.

LAser Applications at Accelerators a european NETwork

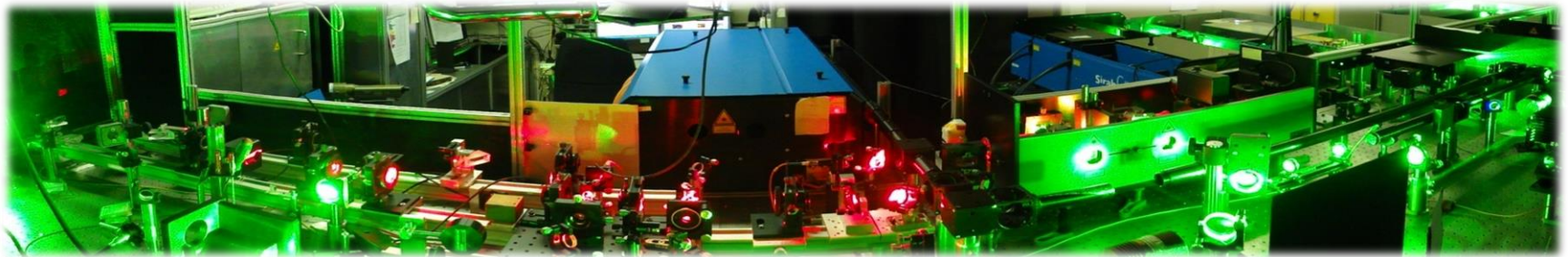
- More than 30,000 accelerators in the world;
- Lasers are becoming increasingly important
 - Beam generation;
 - Acceleration;
 - Characterization, etc.
- Few experts trained in both fields;
- Large scale facilities: International collaboration is key !



Research Program

■ Main areas:

- Particle Sources (WP2);
- Particle Beam Acceleration Schemes (WP3);
- Beam Diagnostics (WP4);
- System Integration (WP5);
- Laser and Photon Detector Technology (WP6).



A unique training program





LA³NET Web Site



LA³NET

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- Part of the School of Physical Sciences



Research and development of laser-based applications for accelerators

19 early-stage researchers working on dedicated projects.

[Find out more](#)



Welcome to LA³NET

Our work focusses on the exploitation of lasers for applications at accelerator facilities for ion beam generation, acceleration and diagnostics. LA³NET is part of the FP7 Marie Curie Initial Training Network (ITN) scheme.



Our Network

LA³NET brings together research centres, universities and industry partners from across Europe in a unique network.

[Find out more](#)

News

LA³NET results in NIMA – selection of abstracts III

European Commission launches a pilot service to boost exploitation of research results



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October 18 at 1:13pm · €

The LHC at CERN is the world's biggest physics experiment, but it's not just physicists involved in making this cutting-edge machine work. There are also an army of engineers digging deep tunnels, testing cavities, synchronising systems and making components.

An article that was just published in The Conversation gives an idea of what these engineers are up to:
<http://theconversation.com/how-an-army-of-engineers-battles...>

How an army of engineers battles contamination and sleep deprivation to take hadron collider to new heights
We hear a lot about the marvellous science going on at CERN. But what goes on behind the scenes?
THECONVERSATION.COM | BY GRAEME BURT

Community Organization in Warrington, England
5.0 ★★★★★

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Outreach & sharing best practice



- **Complementary skills training**
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Public engagement

- Fairs & conferences
- Project videos
- **Symposium on Accelerators & Lasers for Science and Society, Liverpool Convention Centre, 26 June 2015**



International Partnership



This Workshop

- State-of-the-art in laser ion source R&D
- Jointly organized with RESIST, a work package within the H2020 ENSAR-2 project
- Topics:
 - Techniques to enhance ion beam purity
 - Advancements in efficiency, selectivity and spectral resolution
 - New concepts and development of advanced laser technologies for RILIS

Enjoy !