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LAsers for Applications at Accelerators: A Marie Curie Initial Training NETwork

Fact Sheet

Project Information

LA3-NET

Grant agreement ID: 289191

[Project website](#) 

Project closed

Start date

1 October 2011

End date

30 September 2015

Funded under

Specific programme "People" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities (2007 to 2013)

Total cost

€ 4 581 069,16

EU contribution

€ 4 581 069,16

Coordinated by

THE UNIVERSITY OF LIVERPOOL

 United Kingdom

Objective

The advancement of science and engineering in the past decades is inherently linked to the development of lasers. Ever higher laser beam powers, brightness and shorter pulse lengths have helped establish them as an invaluable tool for both a wide range of industry and medical applications, such as for example material treatment, precision measurements, laser cutting, display technologies, and laser surgery, and for fundamental research, where many of the most advanced experiments in

astrophysics, atomic, molecular and optical physics, as well as in plasma research would be impossible without the latest laser technology.

Moreover, lasers have become increasingly important for the successful operation and continuous optimization of particle accelerators: Laser-based particle sources are well suited for delivering the highest quality ion and electron beams, laser acceleration has demonstrated unprecedented accelerating gradients and might be an alternative for conventional particle accelerators in the future, and without laser-based beam diagnostics it would not be possible to unravel the characteristics of many complex particle beams.

The LA3-NET consortium proposes to develop laser applications for particle accelerators within an initial training network. The network brings together research centers, universities, and industry partners to jointly train the next generation of researchers. The partners aim at developing long term collaboration and links between the involved teams across sectors and disciplinary boundaries and to thus help defining improved research and training standards in this multi-faceted field

Programme(s)

[FP7-PEOPLE - Specific programme "People" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities \(2007 to 2013\).](#)

Topic(s)

[FP7-PEOPLE-2011-ITN - Marie-Curie Action: "Initial Training Networks"](#)

Call for proposal

FP7-PEOPLE-2011-ITN

[See other projects for this call](#)

Funding Scheme

[MC-ITN - Networks for Initial Training \(ITN\)](#)

Coordinator



THE UNIVERSITY OF LIVERPOOL

EU contribution

€ 1 004 200,98

Total cost

No data

Address

BROWNLOW HILL 765 FOUNDATION BUILDING

L69 7ZX Liverpool

United Kingdom

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Participants (10)



ORGANISATION EUROPEENNE POUR LA RECHERCHE NUCLEAIRE

Switzerland

EU contribution

€ 739 342,40

Address

ESPLANADE DES PARTICULES 1 PARCELLE 11482 DE MEYRIN BATIMENT CADASTRAL

1046

1211 Meyrin

Region

Schweiz/Suisse/Svizzera > Région lémanique > Genève

Activity type

Research Organisations

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

No data



CONSORCIO PARA EL DISEÑO, CONSTRUCCIÓN, EQUIPAMIENTO Y
EXPLOTACIÓN DEL CENTRO DE LASERES PULSADOS ULTRACORTOS
ULTRAINTENSOS

Spain

EU contribution

€ 461 909,80

Address

EDIFICIO M5 C C/ ADAJA 8 PARQUE CIENTIFICO DE LA UNIVERSIDAD DE SALAMANCA
37185 Villamayor

Region

Centro (ES) > Castilla y León > Salamanca

Activity type

Research Organisations

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

No data



DANFYSIK AS

Denmark

EU contribution

€ 290 248,20

Address

GREGERSENSVEJ 8
2630 TAASTRUP

Region

Danmark > Hovedstaden > Københavns omegn

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

No data



FOTON SRO

Czechia

EU contribution

€ 210 680,78

Address

STUDENKA 1
509 01 Nova Paka



Region

Česko > Severovýchod > Královéhradecký kraj

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

No data



HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF EV

Germany

EU contribution

€ 458 752,78

Address

BAUTZNER LANDSTRASSE 400
01328 Dresden



Region

Sachsen > Dresden > Dresden, Kreisfreie Stadt

Activity type

Research Organisations

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



GRAND ACCELERATEUR NATIONAL D'IONS LOURDS

France

EU contribution

€ 254 095,58

Address

Boulevard Henri Becquerel
14076 Caen

Region

Normandie > Basse-Normandie > Calvados

Activity type

Research Organisations

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE PENTRU FIZICA SI INGINERIE NUCLEARA-HORIA HULUBEI

Romania

EU contribution

€ 180 684,90

Address

STRADA REACTORULUI 30
077125 Magurele

Region
Macroregiunea Trei > Bucureşti-Ilfov > Ilfov

Activity type
Research Organisations

Links
[Contact the organisation](#)
[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost
No data



KARLSRUHER INSTITUT FUER TECHNOLOGIE

 Germany
EU contribution
€ 458 752,78

Address
KAISERSTRASSE 12
76131 Karlsruhe 

Region
Baden-Württemberg > Karlsruhe > Karlsruhe, Stadtkreis

Activity type
Higher or Secondary Education Establishments

Links
[Contact the organisation](#) [Website](#)
[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost
No data



SCIENCE AND TECHNOLOGY FACILITIES COUNCIL

 United Kingdom
EU contribution
€ 261 200,48

Address

Polaris House North Star Avenue
SN2 1SZ SWINDON 

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost

No data



UNIVERSITY OF DUNDEE

 United Kingdom

EU contribution

€ 261 200,48

Address

Nethergate
DD1 4HN Dundee 

Region

Scotland > Eastern Scotland > Angus and Dundee City

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost

No data

Last update: 3 September 2022

Permalink: <https://cordis.europa.eu/project/id/289191>

