ADMISSION CRITERIA

Bachelor degree (180 ECTS or equivalent) in Physics and related topics.

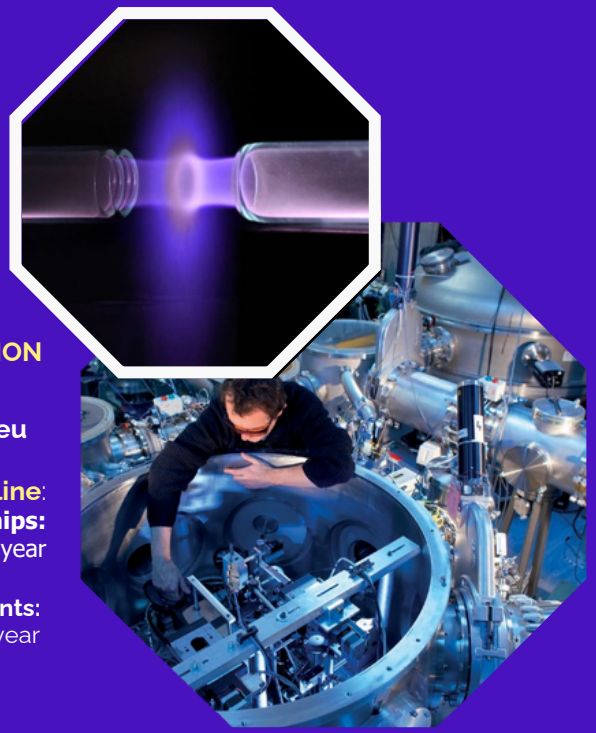
English skills (TOEFL, IELTS or other proof).

SCHOLARSHIPS

Erasmus+: Erasmus Mundus (for 2 years):
up to 33 600 €

Paris-Saclay scholarships (for 2 years):
up to 20 000 €

Lascala partial scholarship (for 2 years):
fee waiving



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APPLICATION

www.master-lascala.eu

Deadline:
Scholarships:
February of each year

Self-financed students:
May of each year

Lascala

Erasmus Mundus Master

LARGE SCALE ACCELERATORS AND LASER

ABOUT US

The LASCALA Master's is a two-year international programme run by four leading European universities. It provides advanced training in accelerator physics, high-power laser technologies, laser–plasma interactions, and gravitational wave detectors, with a focus on cross-disciplinary applications such as energy, medicine, and security.

Proposed by 4 european research Universities:

- Paris-Saclay University (France)
- University of Salamanca (Spain)
- Sapienza University of Rome (Italy)
- Lund University (Sweden)

Best features of the Lascala master:

- Mobility experience in up to 4 European universities
- Double or multiple diploma
- Summer school on big science project
- A specialized winter school on Laser-Plasma Interaction, Accelerators or Gravitational waves
- Large network of large scale facilities and companies
- 6 month research internship

CONTACT US

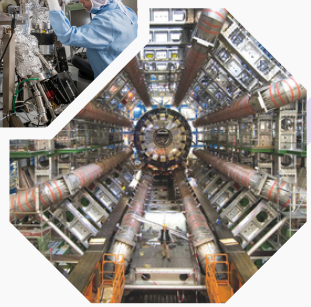
master.lascala@universite-paris-saclay.fr

www.master-lascala.eu

université PARIS-SACLAY · VNiVERSiDAD D SALAMANCA · SAPIENZA UNIVERSITÀ DI ROMA · LUND UNIVERSITY

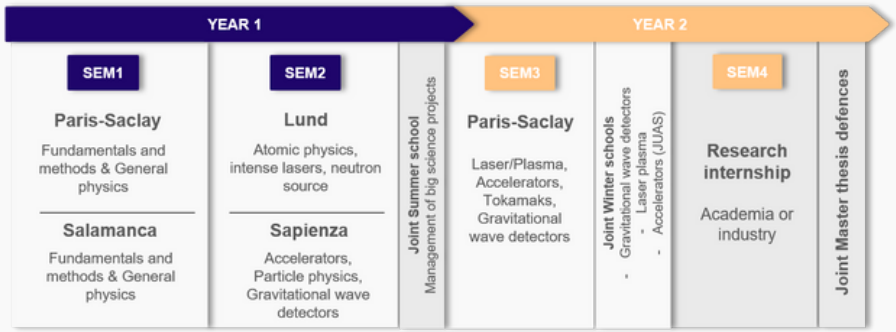
Co-funded by the European Union

MOBILITY TRACKS & SPECIALIZATIONS



Create your own master's programme by choosing between the different specializations of our partner universities.

PATH 1 - Laser, femto and attosecond
PATH 2 - Accelerators
PATH 3 - Gravitational wave detectors



DOUBLE / MULTIPLE DEGREE

1 academic semester = 1 diploma

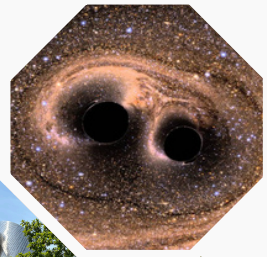
- Master in Physics of Paris-Saclay University
- Master in Photonics of Lund University
- Master in Large Scale Accelerators and Lasers of Salamanca University
- Master in Physics of Sapienza University of Rome

SUMMER AND WINTER SCHOOLS

JOINT WINTER SCHOOLS

A specialized winter school focused on one of the program's core themes:

- **PATH 1** - **Laser-Plasma Interaction**, ELI-ALPS, Szeged, Hungary.
- **PATH 2** - **JUAS**, ESI, Archamps, France.
- **PATH 3** - **Advanced gravitational wave data analysis**, Wigner, Budapest, Hungary.



JOINT SUMMER SCHOOL

Techniques of Oversight in Scientific project Administration (TOSCA) - Archamps, France.

One-week intensive programme on managing large-scale scientific projects (accelerators, lasers, gravitational wave detectors).

- Governance & organization
- Financing & procurement
- Scheduling & quality assurance
- Knowledge transfer & IP
- Sustainability & outreach

SCIENTIFIC AND INDUSTRIAL NETWORKING

Benefit from a full immersion research experience with practicals in research labs, winter schools, on-site visits, seminars and internships proposed by our partners:

- **Research centers:** CLPU (Spain), Elettra Sincrotrone Trieste (Italy), HUN-REN Wigner (Hungary), INFN (Italy), L2A2 (Spain), ELI-ALPS (Hungary), Laserlab Europe (Europe), MAX-IV (Sweden), SOLEIL Synchrotron (France), Central Laser Facility (United Kingdom), Institute of Photonics and Technologies (Taiwan), Structured Light Laboratory (South Africa).
- **Scientific collaboration**: Einstein telescope (Europe), EuPRAXIA (Europe), ECFA (Europe), VIRGO (Europe), LIGO (USA).
- **Companies**: Thales accelerator RF department (France), Thales laser department (France), Amplitude (France).