

INFN opportunities for Emerging Talent



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Open day INFN - 9/10/2025



SAPIENZA
UNIVERSITÀ DI ROMA

Overview

Award Trip to
CERN



“Più donne
nella fisica”
Scholarship



Scholarships for
Master's thesis

-INFN PhD
Scholarships
-PhD in Accelerator
Physics

3°

4°

5°

PhD



Summer school (1
month)

LNGS visit

Summer school (3
months)

“Woman in theoretical physics”
award

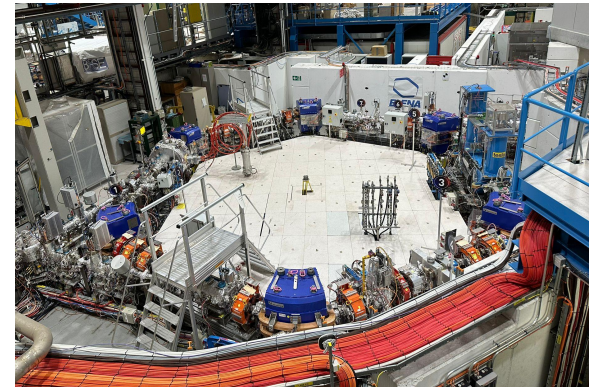
Guided visits to the laboratories: CERN

Third Year (Bachelor):

Award Trip to CERN for the best students of the Nuclear and Subnuclear Physics (FNS) course **(8 scholarships)**

- **Duration:** 3 days
- **Period:** September
- **Activities:** guided tours of CERN experiments and facilities
- **When to apply:** around the end of July
- **Among the requirements:** taking the FNS exam by the July summer session

[Poster from last edition](#)



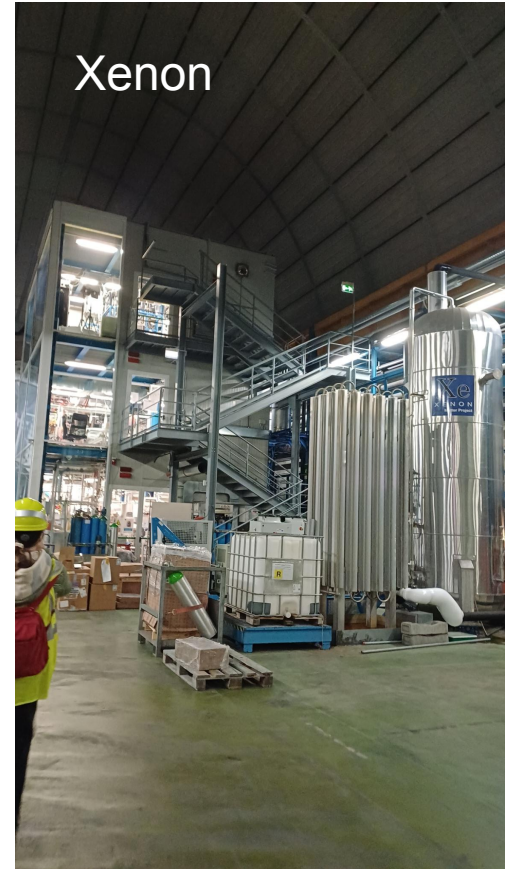
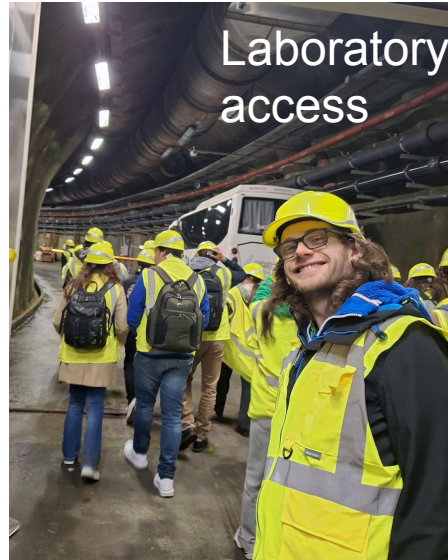
Antimatter
factory, CERN

Guided visits to the laboratories: LNGS

Second year (Master)

Visit to the Gran Sasso Laboratories (LNGS) for students of the Neutrinos & Dark Matter course (and Lab I – HEP additionally) (**~20 places**)

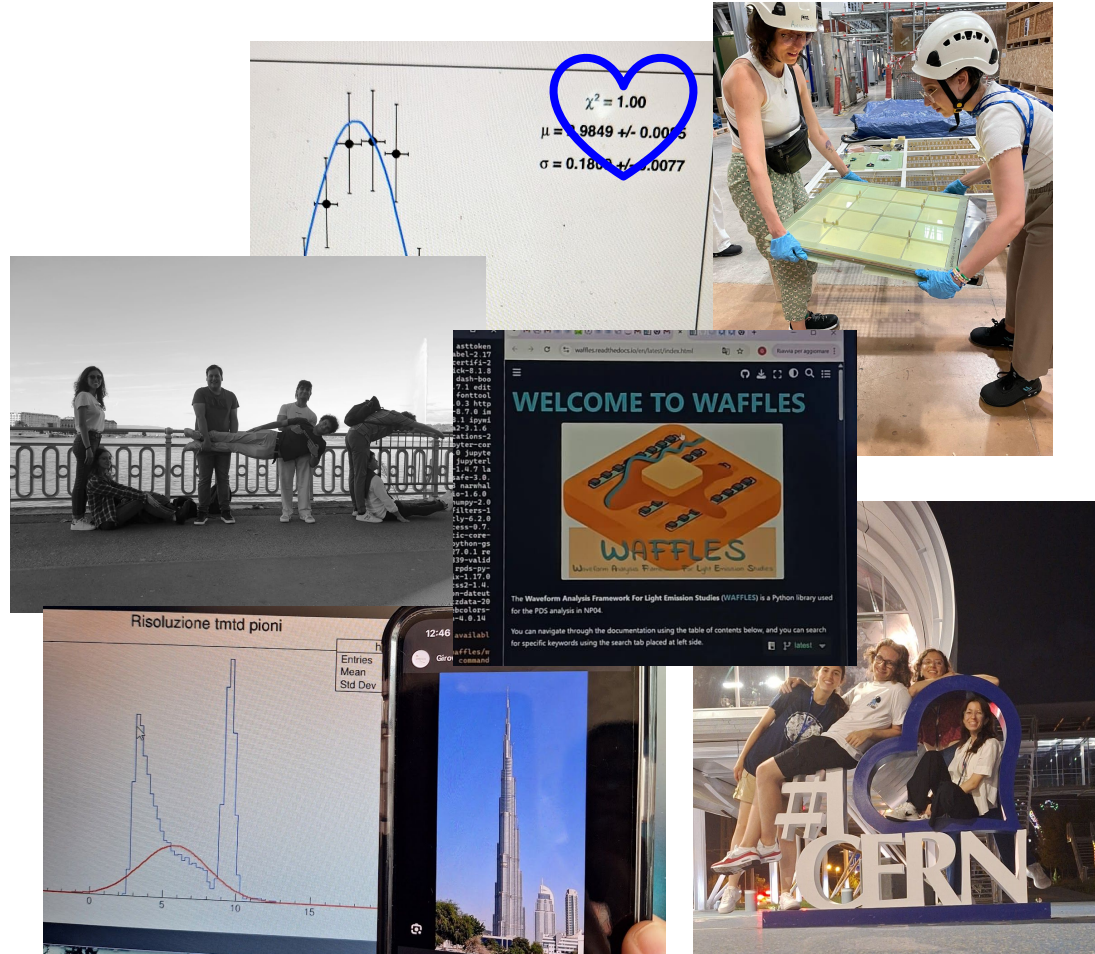
- **Duration:** one afternoon
- **Period:** November
- **Activities:** guided tours of the LNGS experiments and facilities



Summer school

Why you should apply for a Summer school

- You can **visit the top facilities** in the world for physics of fundamental processes (CERN, LNGS, Fermilab, DESY)
- You can learn **new programming and hardware skills**
- You can **'get a taste' of different activities** in Physics research and understand which ones suit you best
- You can start collaborations that can continue with a **Bachelor's or Master's thesis** in an excellence centre



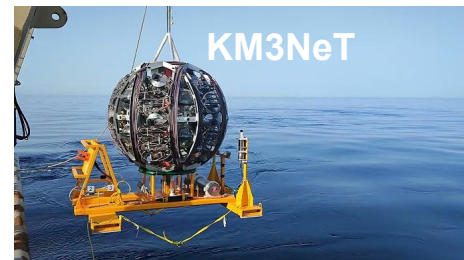
Summer school

If you are in your third year (Bachelor)

CSN2 (Astroparticle Physics) scholarships for undergraduate or recently graduated bachelor's students **(20 scholarships)**

[Call for applications and list of projects](#)

- **Duration:** 3 weeks
- **Period:** summer, but arranged with the supervisor of the assigned project
- **Activities:** hardware, data analysis, simulations, Machine Learning
- **Where:** various INFN laboratories in Italy — LNF (Frascati), LNGS (Gran Sasso, Abruzzo), LNS (Catania), EGO VIRGO (Tuscany), Sos Enattos (Sardinia)
- **When to apply:** March–April



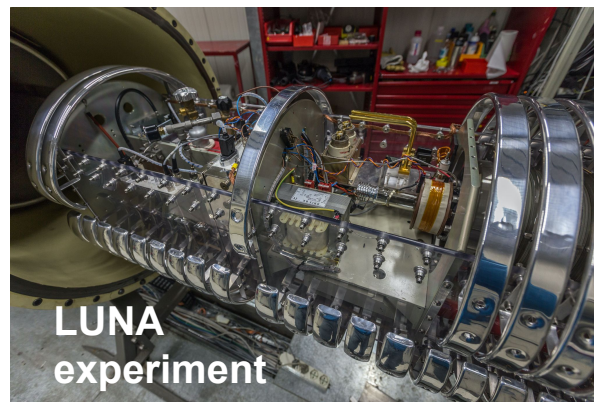
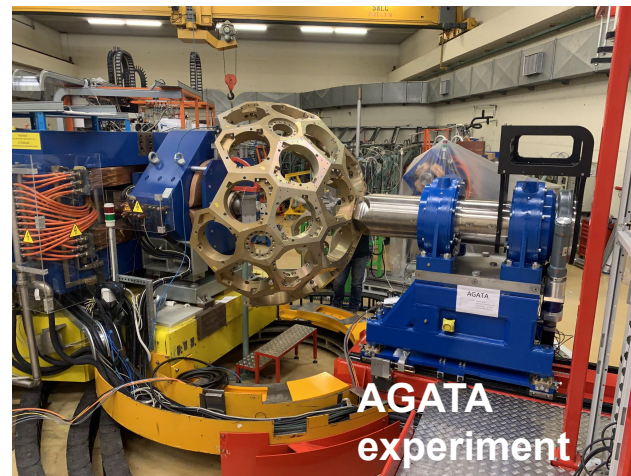
Summer school

If you are in your third year (Bachelor)

CSN3 (Nuclear Physics) scholarships for undergraduate or recently graduated bachelor's students
(6 scholarships)

[Call for applications and list of projects](#)

- **Duration:** 2 weeks
- **Period:** arranged with the supervisors
- **Activities:** detector characterization (mainly laboratory work)
- **Where:** various INFN laboratories in Italy
- **When to apply:** December



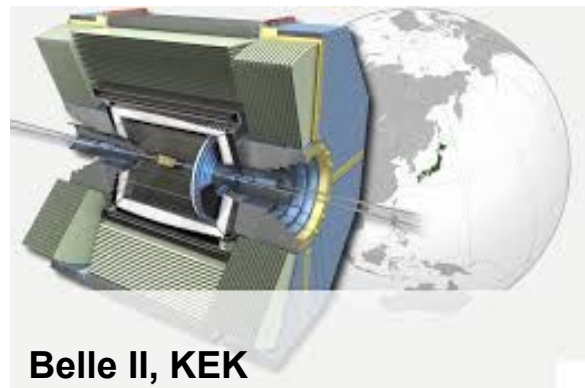
Summer school

If you are in your third year (Bachelor) or in your first year (Master)

CSN1 (Particle Physics at Accelerators) scholarships for undergraduate or recently graduated bachelor's students (20 scholarships)

[Call for applications](#) [list of projects](#)

- **Duration:** 1 month
- **Period:** summer, but arranged with the supervisors of the assigned project
- **Activities:** hardware, data analysis, simulation, Machine Learning
- **Where:** various laboratories around the world — CERN and PSI (Switzerland), KEK (Japan), BEPC (China), INFN (various sites in Italy)
- **When to apply:** January–February



Summer school

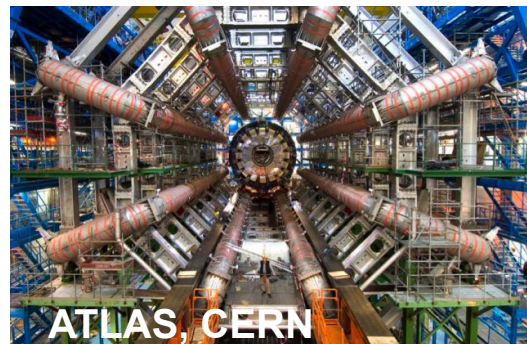
If you are in the second year of your Master's degree or have just graduated (Master's level)

CSN1 (Particle Physics at Accelerators) scholarships

for Master's students or recent Master's graduates (12 scholarships)

[Call for applications](#) [list of projects](#)

- **Duration:** 3 months
- **Period:** variable, arranged with the project supervisors
- **Activities:** hardware, data analysis, simulation, Machine Learning
- **Where:** various laboratories around the world — CERN and PSI (Switzerland), KEK (Japan), BEPC (China), FNAL (Chicago, USA), DESY (Germany)
- **When to apply:** January–February



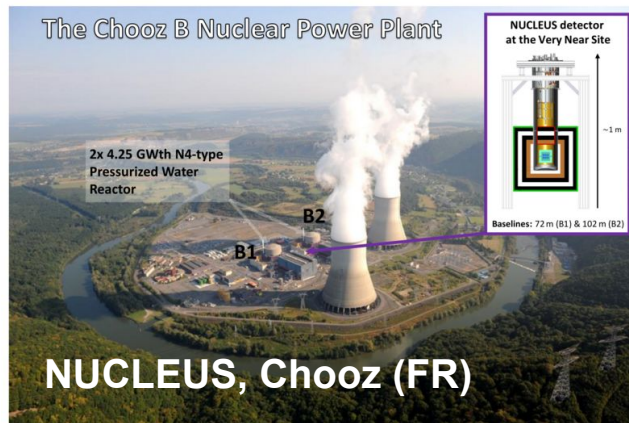
Summer school

If you are in the second year of your Master's degree or have just graduated (Master's level)

CSN2 (Astroparticle Physics) scholarships for Master's students or recent Master's graduates **(4 scholarships)**

[Call for applications](#)

- **Duration:** 3 months
- **Period:** variable, arranged with the supervisors
- **Activities:** hardware, data analysis, simulation, Machine Learning
- **Where:** various laboratories in Italy and Europe
- **When to apply:** around September



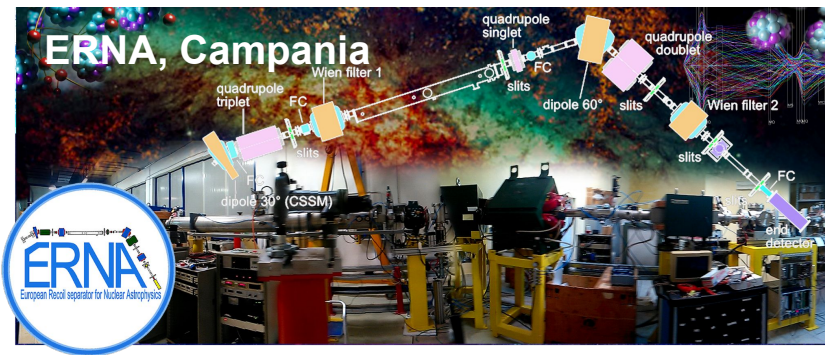
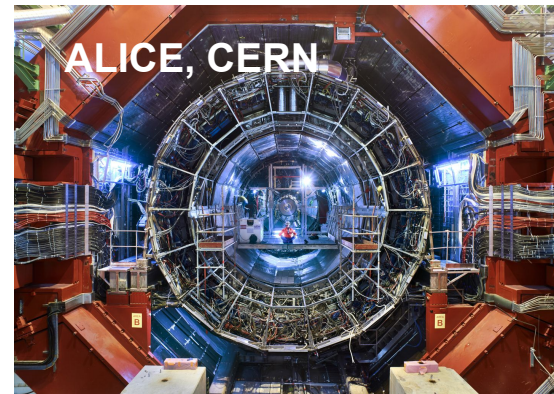
Summer school

If you are in the second year of your Master's degree or have just graduated (Master's level)

CSN3 (Nuclear Physics) scholarships for Master's students or recent Master's graduates (4 scholarships)

[Call for applications](#) [list of projects](#)

- **Duration:** 3 months
- **Period:** variable, arranged with the supervisors
- **Activities:** hardware, data analysis, simulation, Machine Learning
- **Where:** LNGS (Gran Sasso), CERN, BNL (USA), Jefferson Lab (USA), various INFN laboratories in Italy
- **When to apply:** around December



Summer school

Our experiences

MTD Laboratory
CMS (CERN)



DRD1
(CERN)



protoDUNE
(CERN)



Outreach activities

Outreach

If you're interested in science communication and want to get involved...

...you can take part in activities such as the **European Researchers' Night**, Particle Physics Masterclasses for high school students, or '**HEPscape!** The High Energy Physics escape room'.



More info at: https://www.inpa.gov.it/bandi-e-avvisi/dettaglio-bando-avviso/?concorso_id=74df6234d7e44410a0cab7bd5f11eb68
https://www.phys.uniroma1.it/it/PLS-fisica_moderna

Scholarships & Awards

Scholarships for Master's Students

In the second year of the Master's program:

Scholarship to support the completion of the Master's thesis in experimental Physics themes of INFN interest, available at the Rome I Section.

[Call for applications 2024–2025](#)

- **Duration:** 6 months
- **Period:** from April to September
- **Scholarship structure:** monthly salary + meal vouchers + insurance coverage
- **When to apply:** December
- **Among the requirements:** grade point average $> 27/30c$

“Più donne nella Fisica” Scholarship

In the first year of the Master's program:

Scholarships for female students enrolled in a Master's degree program in **Physics** or **Universe Sciences** (~25 scholarships)

- **Duration:** 1 year
- **When to apply:** around the end of the first semester of the first year of the Master's program
- **Requirements:**
 - Bachelor's degree obtained by December 31, 2025, with a final grade of at least 100/110 and a weighted average grade not below 26/30
 - Completion of at least one exam with a grade not lower than 26/30 by July 31, 2026

[Call for applications](#)

In the second year of the Master's program:

Possibility of **renewal** for an additional year

- **Requirements:** completion of at least 25 credits with a weighted average grade not lower than 26/30



Milla Baldo Ceolin “Women in theoretical physics” award

if you have completed your master’s thesis within a CSN4 research topic:

INFN gives a prize to the best 10 master’s thesis written by female students in the context of a CSN4 research project

- **When to apply:** November
- **Among the requirements:** the thesis must be completed in the year before the expiring date of the [call for applications](#)

Winners from the
2024 edition of
the prize



INFN PhD Scholarships

If you want to continue your studies with a PhD...

INFN funds **PhD scholarships** on topics of interest related to its research areas, at Italian universities.

Typically, around 2–3 scholarships per section are available.

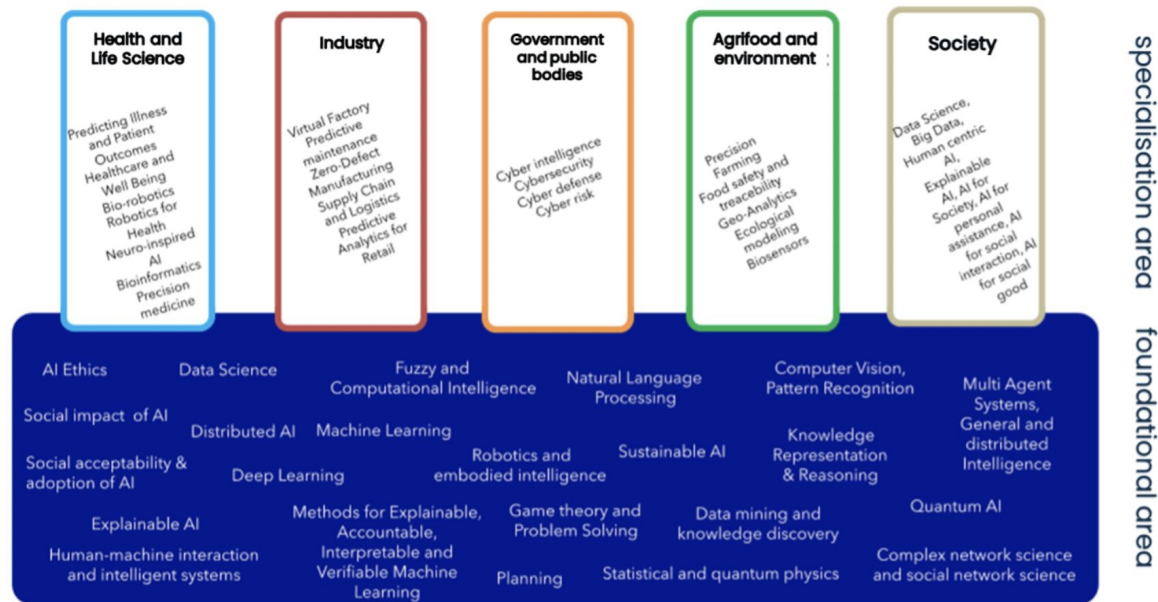
- **Duration:** 3 years
- **Activities:** chosen by the student, to be agreed upon with the selected supervisor
- **When to apply:** spring/summer (each university publishes its own call for applications)
- **Among the requirements:** Master's degree obtained in the September/October sessions of the application year

...and if you're interested in Accelerator Physics...

INFN promotes the **PhD program in Accelerator Physics** (Sapienza University) with dedicated courses and opportunities to spend long research periods in top-level laboratories.

More info at: https://phd.uniroma1.it/web/PHYSICS_nD3503_EN.aspx
<https://phd.uniroma1.it/web/concorso41.aspx?i=4093&l=EN>

National PhD in Artificial Intelligence



For more information: [PHD-AI](https://phd-ai.it)

- If you want to pursue a PhD in AI applications outside physics, INFN is involved in some of them in the CSN5. You may take part in some of these through the National PhD in AI



UNIVERSITÀ DI PISA

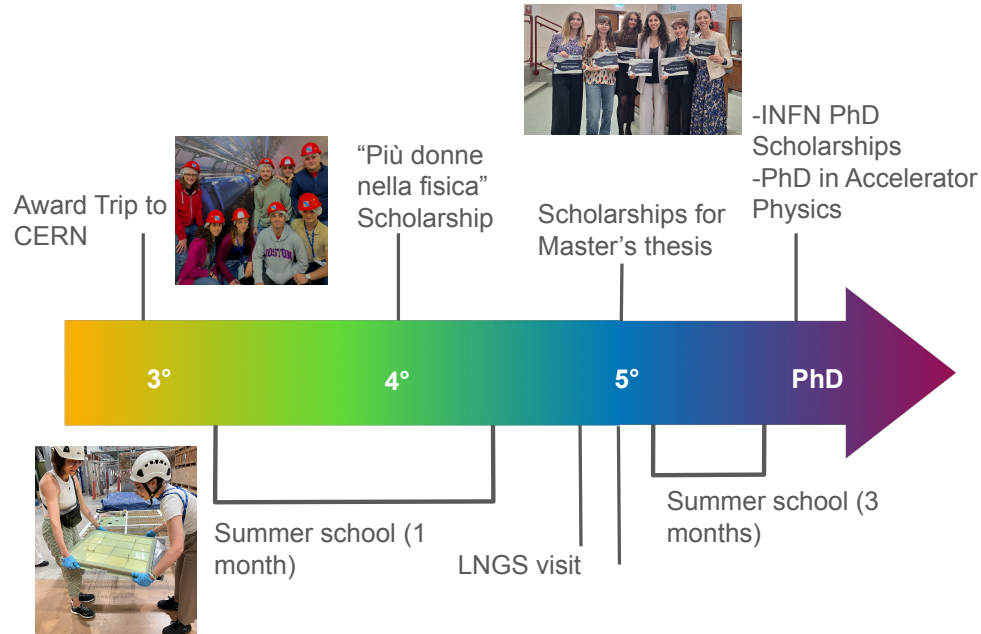


Politecnico di Torino



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Thank you for your attention!



Italian version



SAPIENZA
UNIVERSITÀ DI ROMA

Opportunità INFN per studenti triennali e magistrali

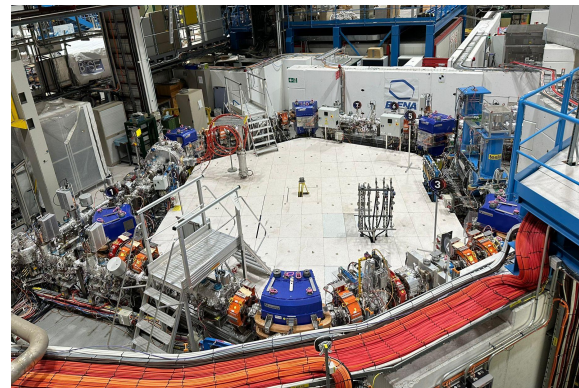
Open day INFN - 9/10/2025

Visite guidate ai laboratori: CERN

Al terzo anno:

Viaggio premio al CERN per i migliori studenti del corso di Fisica Nucleare e Subnucleare (FNS) **(8 borse)**

- **Durata:** 3 giorni
- **Periodo:** Settembre
- **Attività:** visite guidate agli esperimenti e alle facilities del CERN
- **Quando fare domanda:** ~fine Luglio
- **Tra i requisiti:** sostenere l'esame di FNS entro la sessione estiva di luglio



Antimatter
factory, CERN

Visite guidate ai laboratori: LNGS

Al secondo anno magistrale:

Visita ai laboratori del Gran Sasso (LNGS) per gli studenti del corso di Neutrinos & Dark Matter (e Lab I (HEP) in aggiunta) (**~20 posti**)

- **Durata:** 1 pomeriggio
- **Periodo:** Novembre
- **Attività:** visite guidate agli esperimenti e alle facilities dei LNGS



Summer school

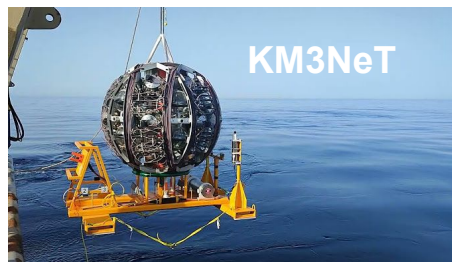
Summer school

Se sei al terzo anno

Borse di studio **CSN2 (Fisica delle Astroparticelle)** per laureandi o neolaureati triennali **(20 borse)**

[bando ed elenco progetti](#)

- **Durata:** 3 settimane
- **Periodo:** estivo ma concordato con i tutor del progetto assegnato
- **Attività:** hardware, analisi dati, simulazione, Machine Learning
- **Dove:** diversi laboratori INFN in Italia: LNF (Frascati), LNGS (Gran Sasso, Abruzzo), LNS (Catania), EGO VIRGO (Toscana), Sos Enattos (Sardegna)
- **Borsa:** da 1500 € a 2500 €
- **Quando fare domanda:** marzo-aprile



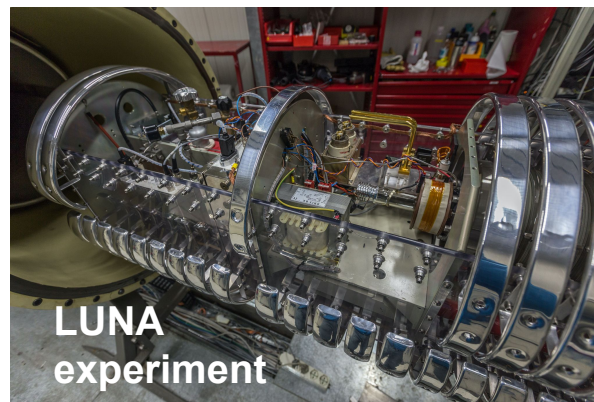
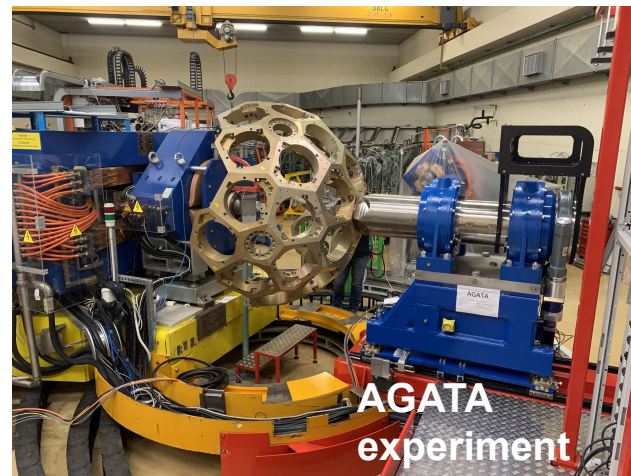
Summer school

Se sei al terzo anno

Borse di studio **CSN3 (Fisica Nucleare)** per laureandi o neolaureati triennali (**6 borse**)

[bando elenco dei progetti](#)

- **Durata:** 2 settimane
- **Periodo:** concordato con i tutor
- **Attività:** caratterizzazione di rivelatori (prevalentemente attività in laboratorio)
- **Dove:** diversi laboratori INFN in Italia
- **Borsa:** da 400 € a 600 €
- **Quando fare domanda:** dicembre

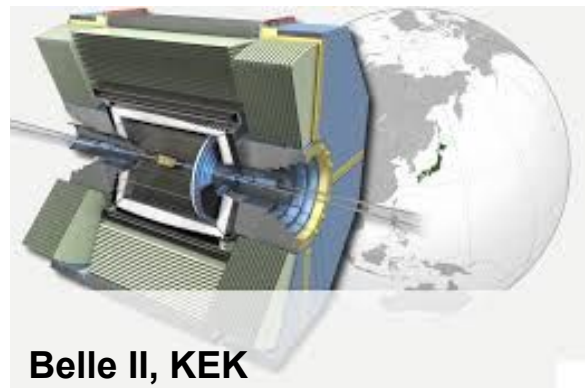


Summer school

Se sei al terzo anno o al primo anno di magistrale...

Borse di studio **CSN1 (Fisica delle Particelle agli acceleratori)** per laureandi o neolaureati triennali **(20 borse)**
[bando](#) [elenco progetti](#)

- **Durata:** 1 mese
- **Periodo:** estivo ma concordato con i tutor del progetto assegnato
- **Attività:** hardware, analisi dati, simulazione, Machine Learning
- **Dove:** diversi laboratori in tutto il mondo: CERN e PSI (Svizzera), KEK (Giappone), BEPC (Cina), INFN (diverse sedi in Italia)
- **Borsa:** 3000 € per i laboratori all'estero, 1500 € per quelli in Italia
- **Quando fare domanda:** gennaio-febbraio

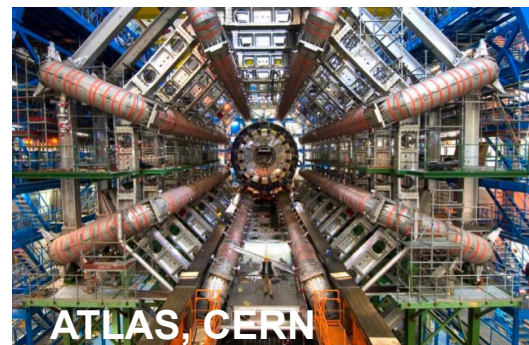


Summer school

Se sei al secondo anno di magistrale o ti sei appena laureat* (Magistrale)

Borse di studio **CSN1 (Fisica delle Particelle agli acceleratori)** per laureandi o neolaureati magistrali (12 borse)
[bando](#) [elenco progetti](#)

- **Durata:** 3 mesi
- **Periodo:** variabile, concordato con i tutor
- **Attività:** hardware, analisi dati, simulazione, Machine Learning
- **Dove:** diversi laboratori in tutto il mondo: CERN e PSI (Svizzera), KEK (Giappone), BEPC (Cina), FNAL (Chicago, USA), DESY (Germania)
- **Borsa:** 8700 € per i laboratori all'estero
- **Quando fare domanda:** gennaio-febbraio



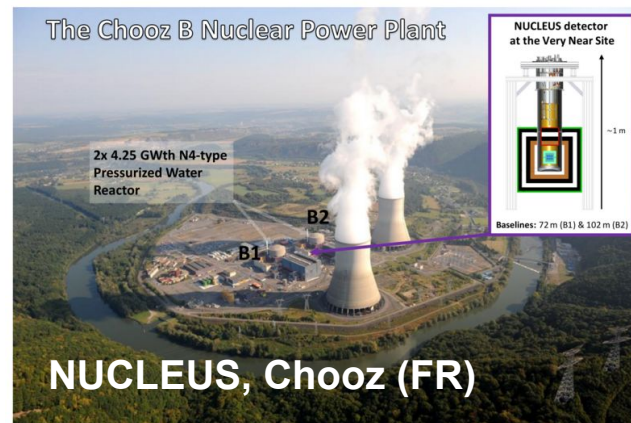
Summer school

Se sei al secondo anno di magistrale o ti sei appena laureat* (Magistrale)

Borse di studio **CSN2 (Fisica delle Astroparticelle)** per laureandi o neolaureati magistrali (**4 borse**)

[bando](#)

- **Durata:** 3 mesi
- **Periodo:** variabile, concordato con i tutor
- **Attività:** hardware, analisi dati, simulazione, Machine Learning
- **Dove:** Diversi laboratori in Italia ed Europa
- **Borsa:** 3000 - 6000 €
- **Quando fare domanda:** ~settembre

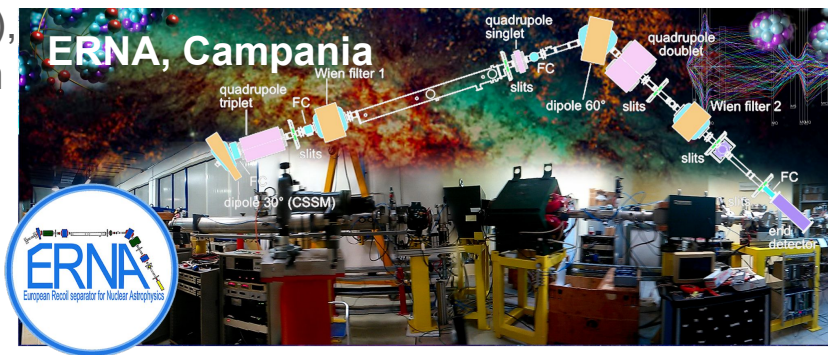
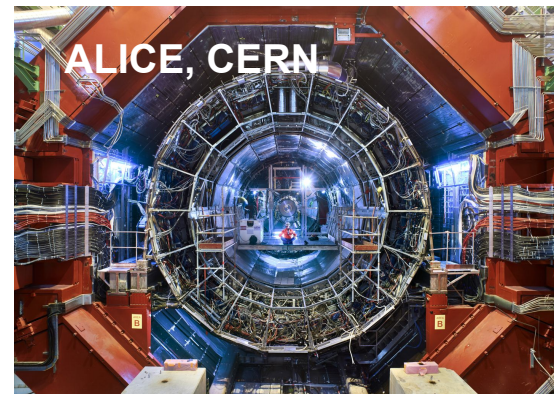


Summer school

Se sei al secondo anno di magistrale o ti sei appena laureat* (Magistrale)

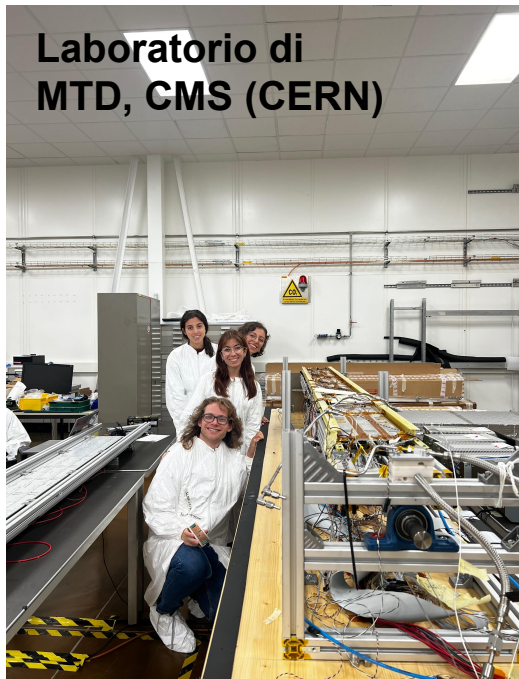
Borse di studio **CSN3 (Fisica Nucleare)** per laureandi o neolaureati magistrali **(4 borse)**
[bando elenco dei progetti](#)

- **Durata:** 3 mesi
- **Periodo:** variabile, concordato con i tutor
- **Attività:** hardware, analisi dati, simulazione, Machine Learning
- **Dove:** LNGS (Gran Sasso), CERN, BNL (USA), Jefferson LAB (USA), diversi laboratori INFN in Italia
- **Borsa:** 2000€ - 6000€
- **Quando fare domanda:** ~dicembre

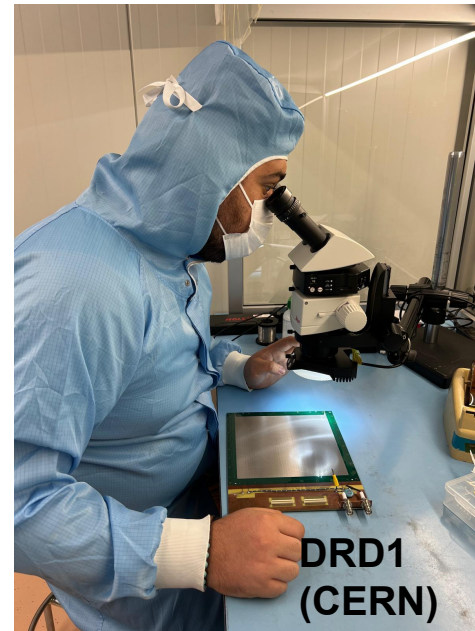


Summer school

Laboratorio di
MTD, CMS (CERN)



Le nostre
esperienze



DRD1
(CERN)

Attività di outreach

Outreach

Se sei interessat* alla divulgazione e vuoi metterti in gioco...

... puoi partecipare ad attività come la **Notte Europea dei Ricercatori**, **Masterclass** di Fisica delle Particelle per studenti liceali o ad '**HEPscape!** The High Energy Physics escape room'



Borse di Studio

Borse di studio per laureandi magistrali

Al secondo anno magistrale:

Borsa di studio a supporto dello svolgimento della tesi magistrale da usufruire presso Sezione di Roma I

[bando 2024-2025](#)

- **Durata:** 6 mesi
- **Periodo:** da Aprile a Settembre
- **Borsa:** ~700 euro al mese + buoni pasto + copertura assicurativa
- **Quando fare domanda:** dicembre
- **Tra i requisiti:** media voti > 27/30

Borsa di studio “Più donne nella Fisica”

Al primo anno magistrale:

Borse di studio per **studentesse** iscritte ad un corso di laurea magistrale in **Fisica** o in **Scienze dell'Universo** (~25 borse)

- **Borsa:** €1500 lordi + affiancamento di un tutor
- **Durata:** 1 anno
- **Quando fare domanda:** ~ fine primo semestre del primo anno di magistrale
- **Requisiti:**
 - Laurea Triennale conseguita entro il 31/12/2025, con una votazione non inferiore a 100/110 e con una media ponderata non inferiore a 26/30
 - superamento di almeno un esame con voto non inferiore a 26/30 entro il 31/07/2026

Al secondo anno magistrale:

Possibilità di **rinnovo** per un ulteriore anno

- **Requisiti:** conseguimento di almeno 25 crediti con una media ponderata dei voti non inferiore a 26/30



Borse di dottorato INFN

Se vuoi proseguire gli studi con un dottorato di ricerca...

INFN finanzia **borse di dottorato** su temi di interesse per le sue linee di ricerca presso università italiane. Generalmente mette a disposizione ~2/ 3 borse per Sezione

- **Durata:** 3 anni
- **Attività:** a vostra scelta, da concordare con il supervisor scelto
- **Borsa:** 16000 euro annui (come da contratto nazionale)
- **Quando fare domanda:** primavera/estate, ogni università ha il suo bando!
- **Tra i requisiti:** conseguimento della laurea magistrale entro le sessioni di settembre/ottobre dell'anno in cui si applica

... e se ti interessa la Fisica degli Acceleratori...

INFN promuove il programma di **dottorato in Fisica degli Acceleratori** (Sapienza) con corsi dedicati e possibilità di svolgere lunghi periodi in laboratori di ricerca di primo livello

Sum up

