

Particle & Astroparticle Physics Spring Programme

iaps@GranSasso2015

Francesco Sciortino

International Association of Physics Students (IAPS)

Associazione Italiana Studenti di Fisica (AISF)





{iaps@GranSasso}

{iaps} is proud to announce the first edition of the *iaps@GranSasso - Particle & Astroparticle Physics Spring Programme*.

-200 m

-400 m

WHAT

We will be visiting these institutions & facilities in the centre of Italy:

LNGS

Gran Sasso
National

GSSI

Gran Sasso
Science Institute

ENEA

Italian National agency
for new technologies,
Energy and Environment

and more...

-400 m

LNGS

Gran Sasso
National
Laboratory

GSSI

Gran Sasso
Science Institute

ENEA

Italian National agency
for new technologies,
Energy and sustainable
economic development

and more...

-600m

WHEN

5

May

to

9

May

a five day tour with
the last day visiting
Rome, Italy

-800 m

STUDENT TALKS & POSTERS

On the 8th, a set of student talks and posters will be presented. These will provide participants with a unique opportunity to share their research not only with their peers, but also with LNGS and GSSI researchers.

-1000 m

REGISTRATION

Feb 28
13:00 CET

Registration Deadline

Please visit www.iaps.info for more information & registration for the tour and student talks. A participation fee of €90 is applicable.

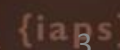
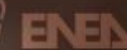
-1200 m

-1400 m



Laboratori
Nazionali del
Gran Sasso

covered by 1400 m of rock, it
has 3000 m of water
equivalent shielding.





Laboratori Nazionali del Gran Sasso



Italian National Agency for New Technologies,
Energy and Sustainable Economic Development



international association of physics students



Organising Committee:

Francesco Sciortino – Coordinator
Deividas Sabonis

Collaborators:

Matthias Zimmermann – Presidente IAPS
Andreea Monteanu – Tesoriere IAPS
Leon Jurčič – Comitato IAPS
Lucio Milanese – Comitato AISF

Partners:

Associazione Italiana Studenti di Fisica (AISF)

International Association of Physics Students (IAPS)

Laboratorio Nazionale del Gran Sasso (LNGS) – Istituto Nazionale di Fisica Nucleare (INFN)

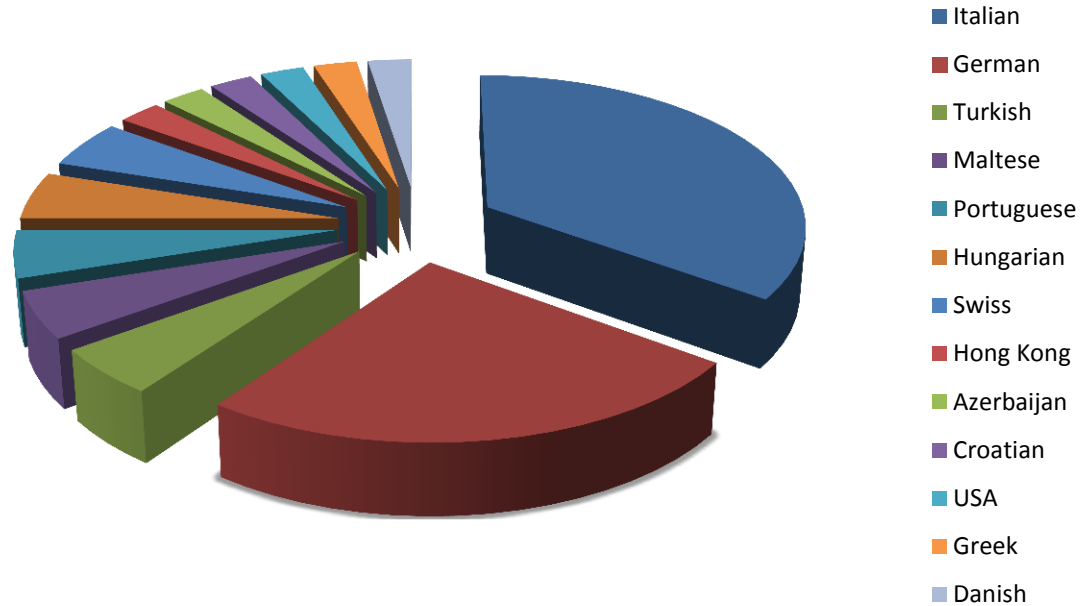
Gran Sasso Science Institute (GSSI)

ENEA – Centro Ricerche Frascati

→ *Some key facts*

Nationalities:

- *Italian: 14*
- *German: 10*
- *Turkish: 2*
- *Maltese: 2*
- *Portuguese: 2*
- *Hungarian: 2*
- *Swiss: 2*
- *Hong Kong: 1*
- *Azerbaijan: 1*
- *Croatian: 1*
- *USA: 1*
- *Greek: 1*
- *Danish: 1*



Budget: approx. €5000 (managed by the Organising Committee) + approx. €10'000 (managed by LNGS and GSSI)
 -----> €15'000

Programme



May 5th

- » *Arrival in Rome in the afternoon, accommodation near Piazza Bologna*
- » *Social dinner in a pizzeria*

May 6th

- » *Journey to Frascati (train)*
- » *Visit of the ENEA Frascati laboratories: ABC laser, superconductivity labs, Frascati Tokamak Upgrade*
- » *Lunch at the ENEA canteen*
- » *Journey in the afternoon to the Hotel Federico II in L'Aquila (bus)*
- » *Free evening in the city centre of L'Aquila*

May 7th

- » *Bus journey to LNGS (Assergi)*
- » *Introduction by Prof. Ragazzi, LNGS Director*
- » *Talks by representatives of LNGS experiments (15-30 minutes each). Main subjects: dark matter, beta-beta decays, neutrino physics*
- » *Buffet lunch at LNGS*
- » *Afternoon presentations of LNGS experiments until 15:30*
- » *Underground visit of LNGS*
- » *Free evening in L'Aquila*

Programme

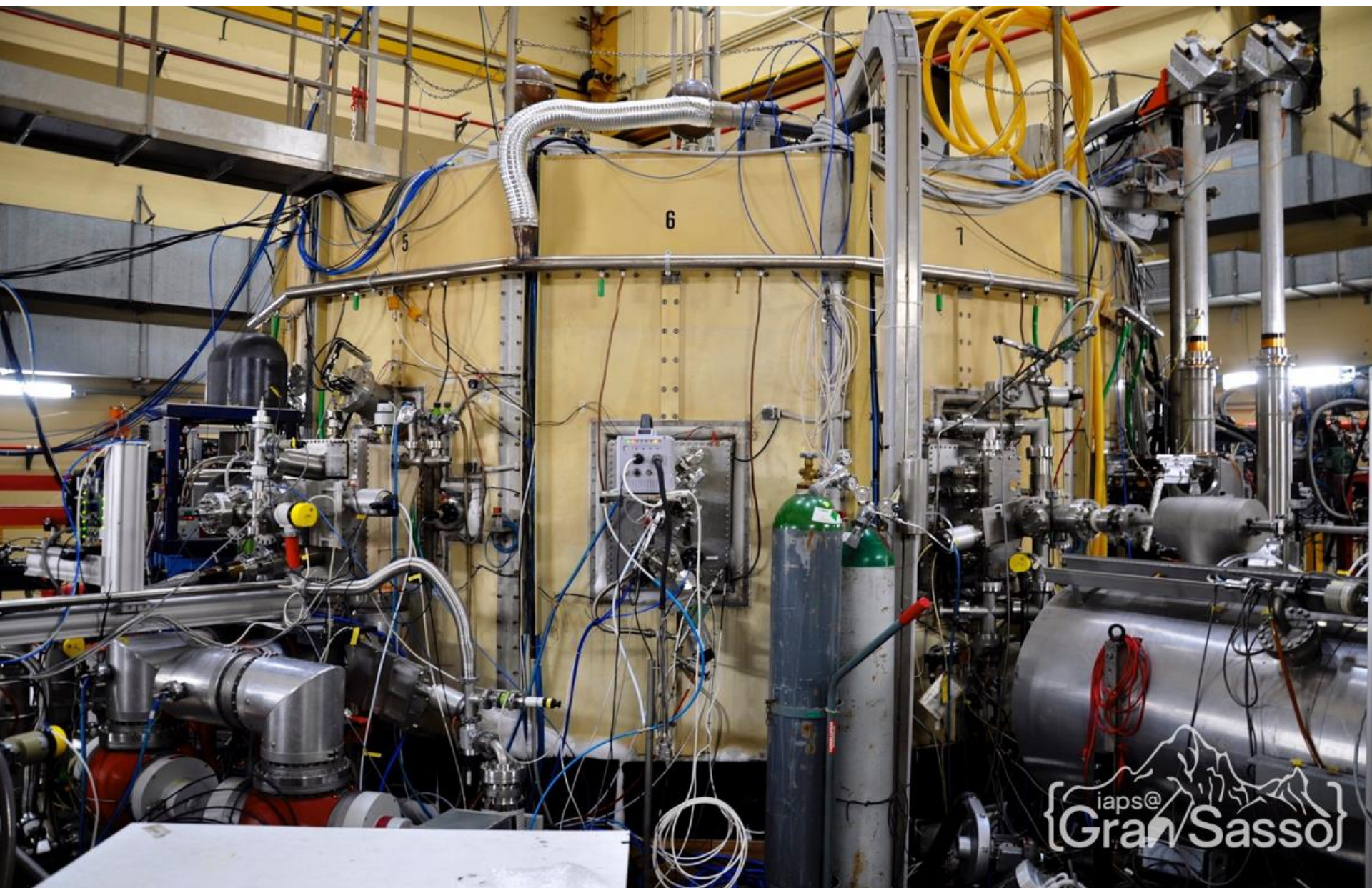
May 8th

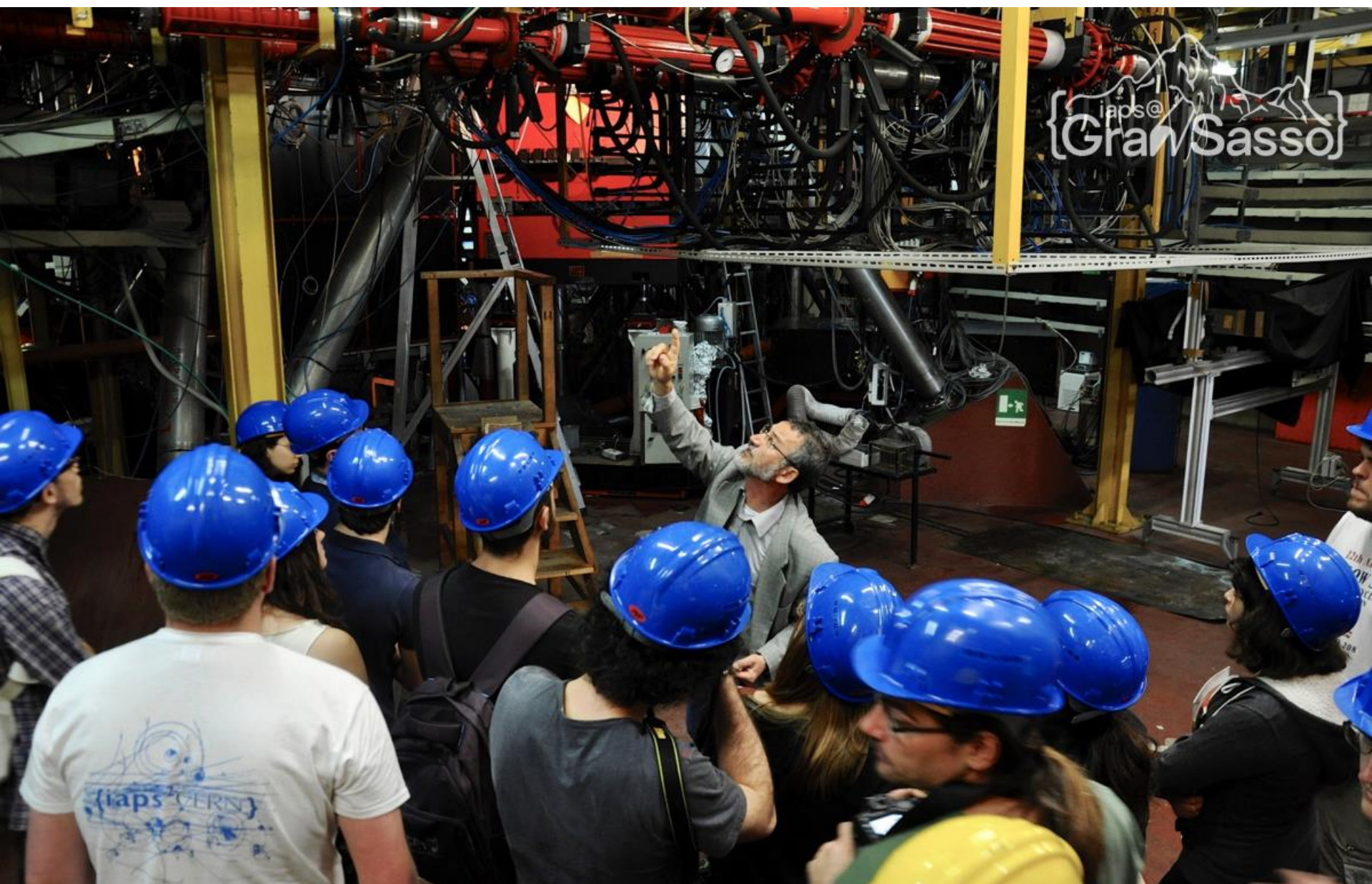
- » *Full day at the Gran Sasso Science Institute (GSSI)*
- » *Introduction by Prof. Coccia, GSSI Director*
- » *Talks by LNGS-GSSI researchers*
- » *Lunch at the Palace of the Abruzzo Regional Council*
- » *14:30 - 15:30: Student posters session*
- » *15:30 - 18:30: Student talks session*
- » *Social dinner in a typical restaurant in L'Aquila*

May 9th

- » *Leaving by bus at 7:00, arriving in Rome Termini and Fiumicino Airport*
- » *Visit of the city centre of Rome, ended at about 17:00*





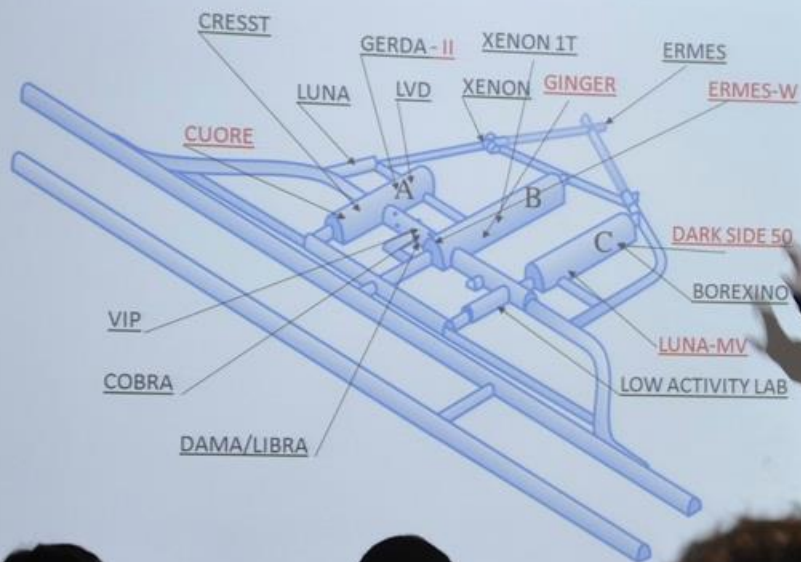








LNGS Activities



Stefano Ragusa & UNIMIB









Advantages of Fusion Energy - Why do we need it?

It's abundant
The world energy consumption is projected to double by 2050. The amount of energy that can be produced with nuclear fusion is almost limitless. Current sources of renewable energy use thousands of years' worth of fossil fuels.

It's clean
Fusion produces no greenhouse gases. The production of energy with nuclear fusion is safe. There is no risk of nuclear meltdown and no radioactive waste to be disposed of.

It's fair
The basic fuel will be deuterium, readily available in sea water. There are no concerns for control of energy resources. There are no military applications of a nuclear fusion energy plant.







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May 2015*

