

# Ideas for the Palazzina

M. Sanges  
R. Nania



Giornate dei progetti del Centro Fermi 1 e 2 Marzo 2017





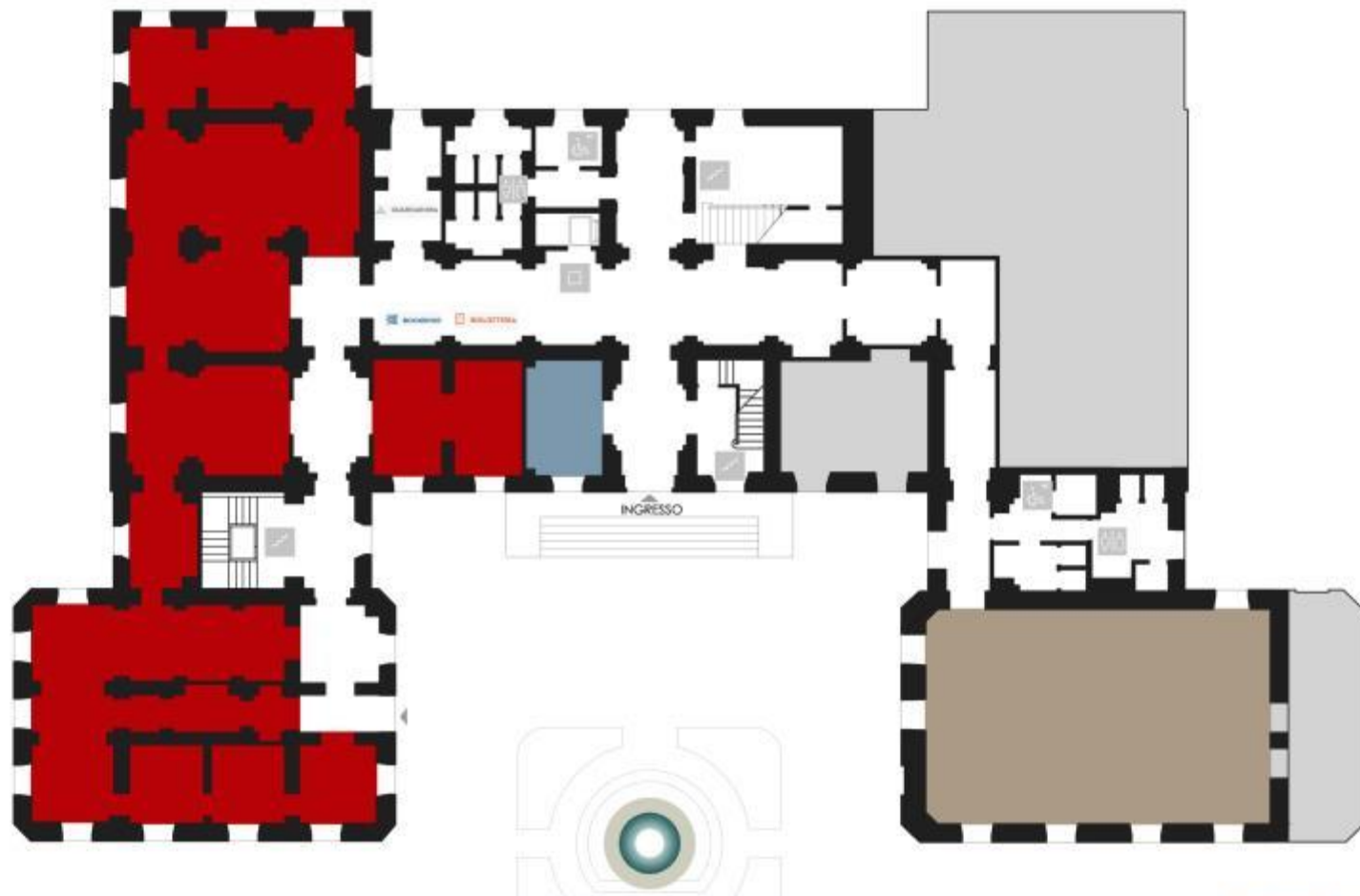




## PIANO TERRA

Ambienti riservati alla .....

- SALE ESPOSITIVE
- AULA FERMI
- UFFICIO VIDEOSORVEGLIANZA





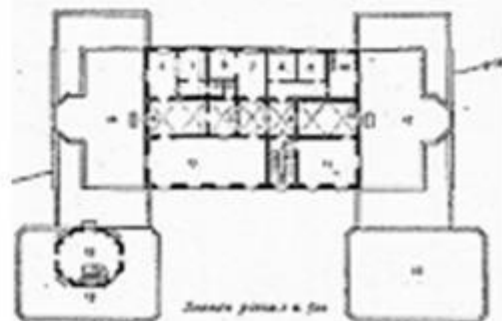
L'ISTITUTO FISICO DI ROMA E LE ONORANZE A PIETRO BLASERNA.



Primo Piano 2-100



Secondo Piano 2-100



Terrazza prima e 2a





FERMI





**MAP OF THE EXHIBITION /  
MAPPA DELLA MOSTRA**

**life. A BRILLIANT LIFE**

UNA VITA SCINTILLANTE

**in. INVITATION TO THE EXHIBITION**

INVITO ALLA MOSTRA

**1. OUR UNIVERSE OF FERMIONS  
AND BOSONS**

IL NOSTRO UNIVERSO  
DI FERMIONI E BOSONI

**2. THE FORMIDABLE THEORY  
OF BETA RADIATION**

LA FORMIDABILE TEORIA  
DEI RAGGI BETA

**3. AN ALL ITALIAN NOBEL PRIZE**

UN PREMIO NOBEL TUTTO ITALIANO

**4. "THE ITALIAN NAVIGATOR HAS  
LANDED IN THE NEW WORLD ..."**

"IL NAVIGATORE ITALIANO E'  
SBARCATO NEL NUOVO MONDO..."

**5. THE MYSTERY OF COSMIC RAYS**

IL MISTERO DEI RAGGI COSMICI

**6. AND NOW ACCELERATORS**

E ADESSO GLI ACCELERATORI

**7. FERMI'S LAST GIFT  
TO ITALY**

L'ULTIMO DONO DI  
FERMI ALL'ITALIA

**name. FERMI'S NAME IN  
SCIENCE**

IL NOME DI FERMI  
NELLA SCIENZA

**AC. A CREATIVE  
ENVIRONMENT**

UN AMBIENTE  
CREATIVO

**CF. CENTRO FERMI'S  
PROJECTS**

I PROGETTI DEL  
CENTRO FERMI

**video. VIDEO\_DOCUMENT**

SALE ESPOSITIVE → percorso

0 1 2 3 4 5 m



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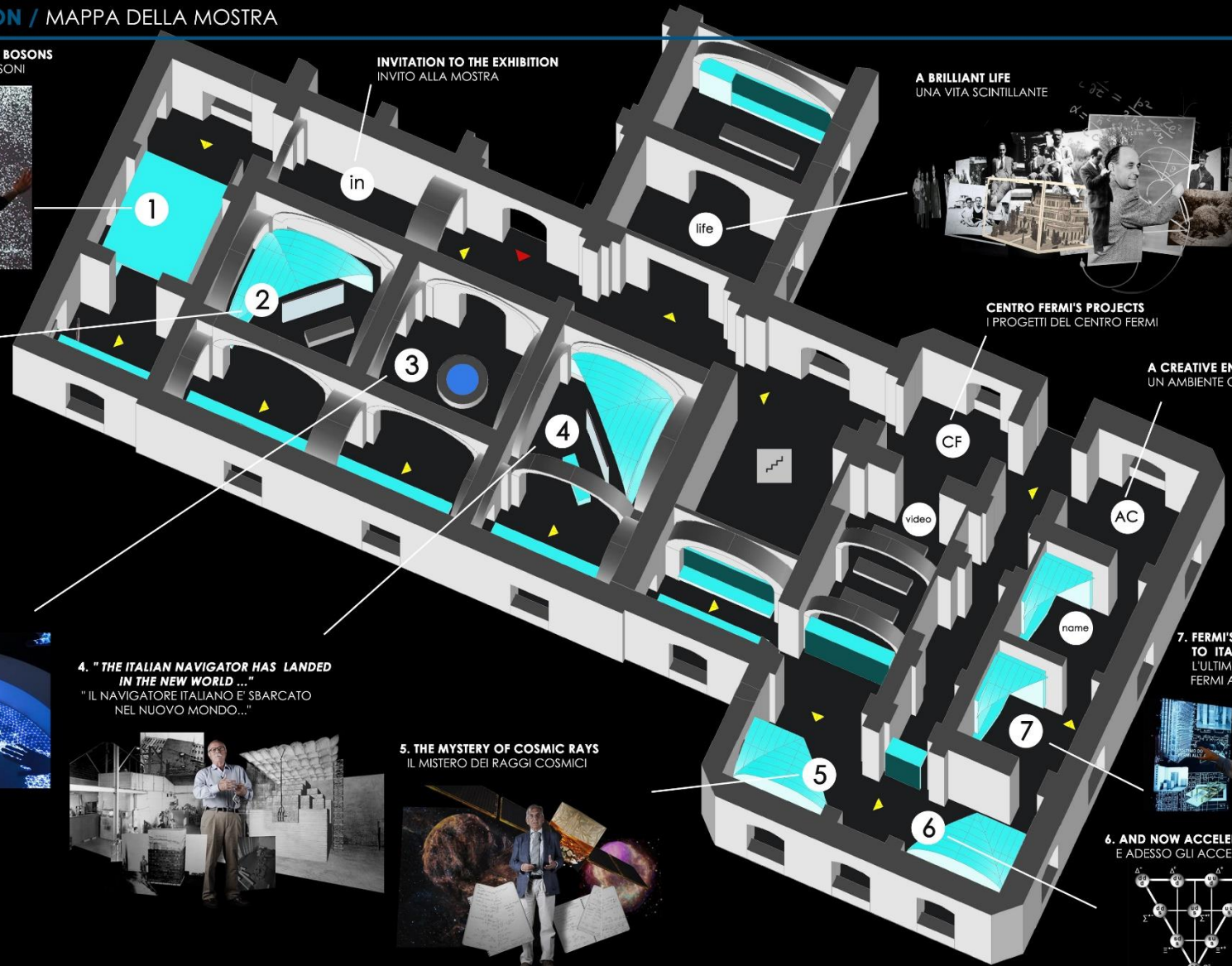
INVITATION TO THE EXHIBITION  
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A BRILLIANT LIFE  
UNA VITA SCINTILLANTE



CENTRO FERMI'S PROJECTS  
I PROGETTI DEL CENTRO FERMI

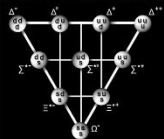
A CREATIVE ENVIRONMENT  
UN AMBIENTE CREATIVO



7. FERMI'S LAST GIFT TO ITALY  
L'ULTIMO DONO DI FERMI ALL'ITALIA



6. AND NOW ACCELERATORS  
E ADESSO GLI ACCELERATORI





**Rendering from the first ideas for the museum**

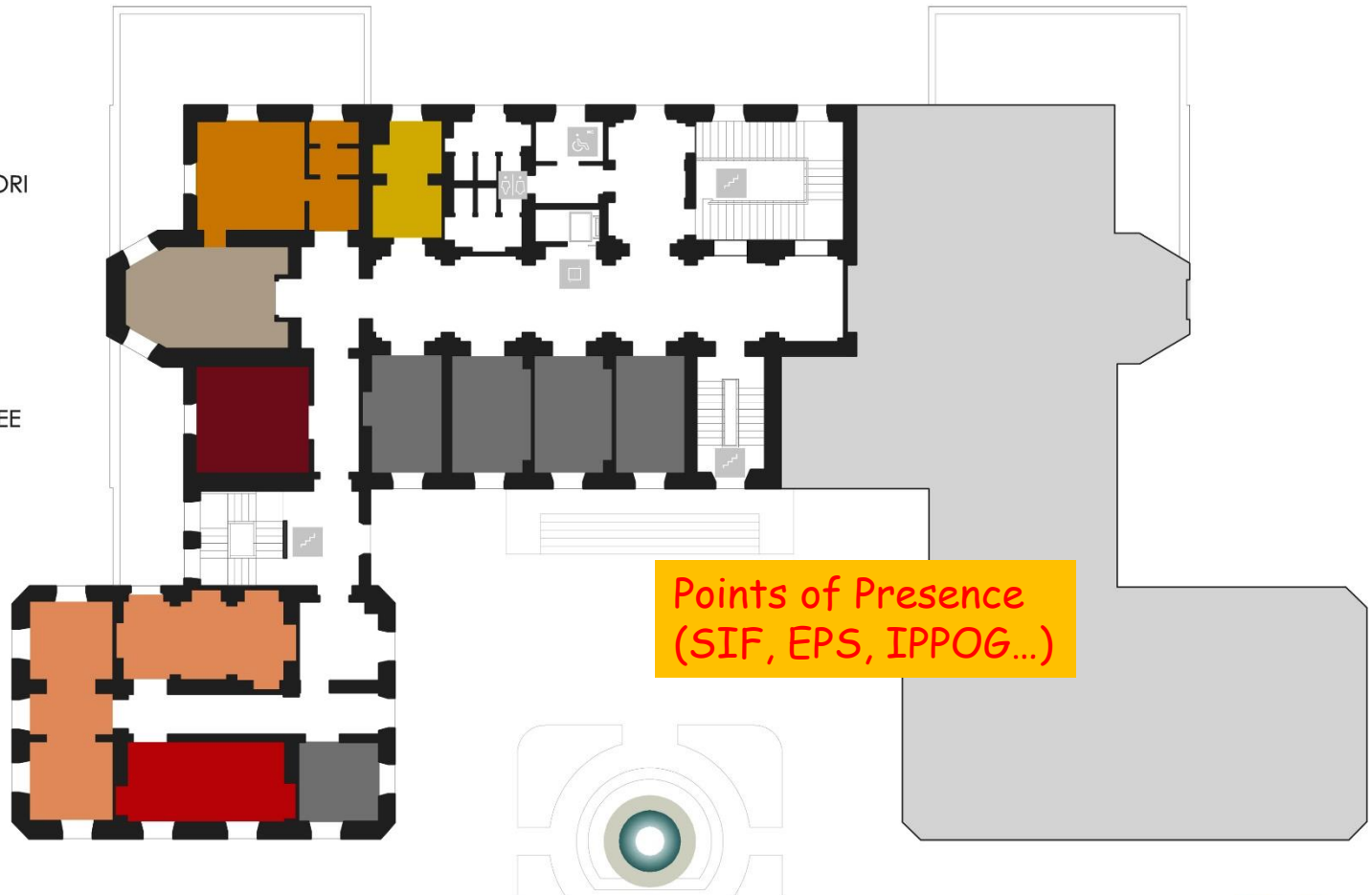


Giornate 1 & 2 March

## 1° LIVELLO

Ambienti riservati alla .....

-  AREA RELAX
-  AULA
-  STUDI RICERCATORI
-  LABORATORIO
-  SALE LETTURA
-  LABORATORIO EEE
-  ARCHIVIO



Points of Presence  
(SIF, EPS, IPPOG...)

## 2° LIVELLO

Ambienti riservati alla .....

- UFFICI DIREZIONALI
- UFFICI AMINISTRATIVI
- STUDI RICERCATORI
- SALA RIUNIONI
- AULA
- LABORATORI
- ARCHIVIO



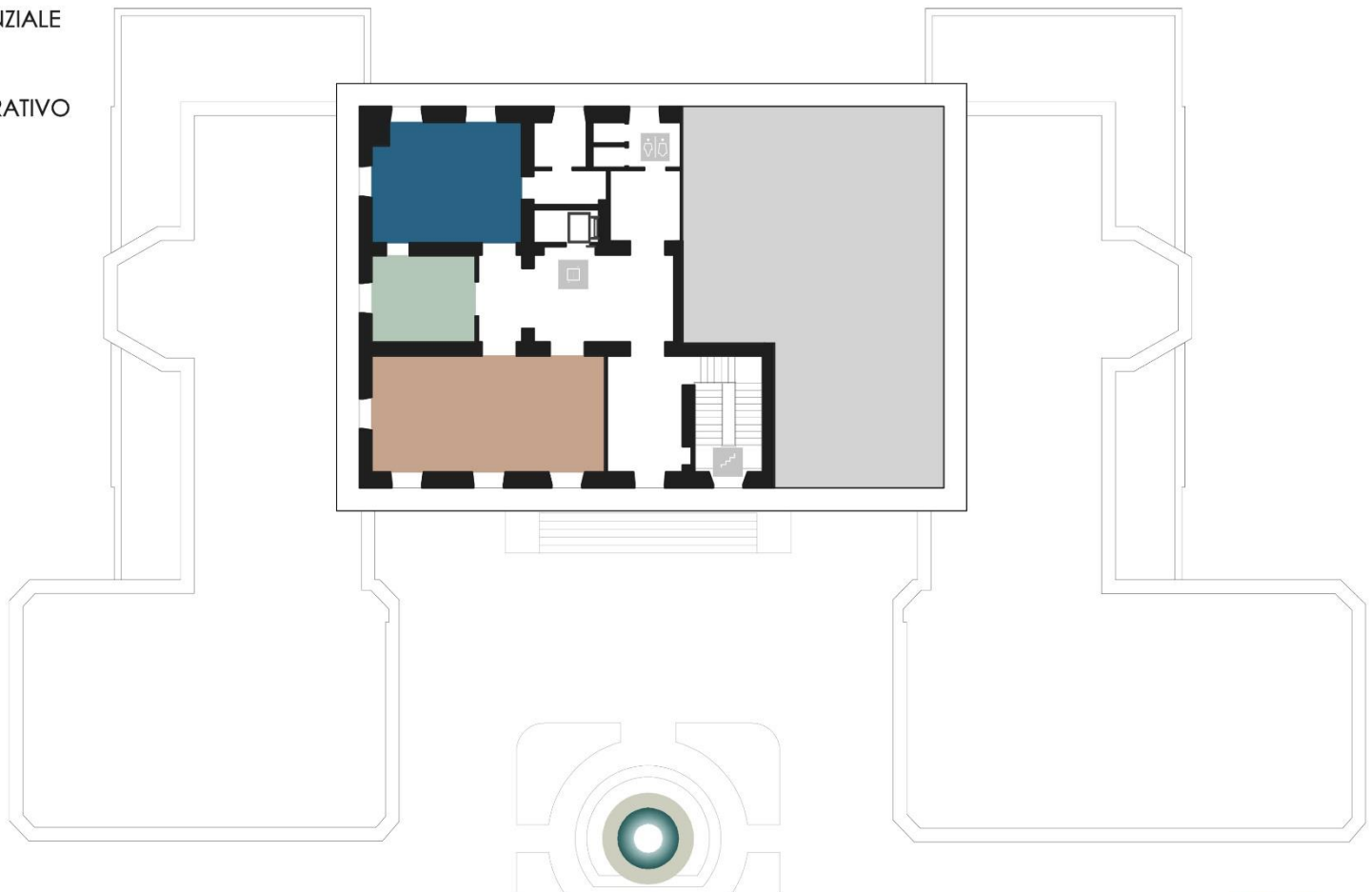
## ATTICO

Ambienti riservati alla .....

■ UFFICIO PRESIDENZIALE

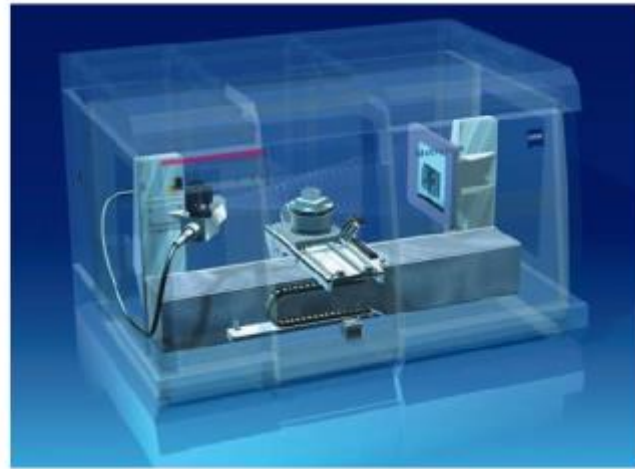
■ UFFICIO AMINISTRATIVO

■ SALA RIUNIONI

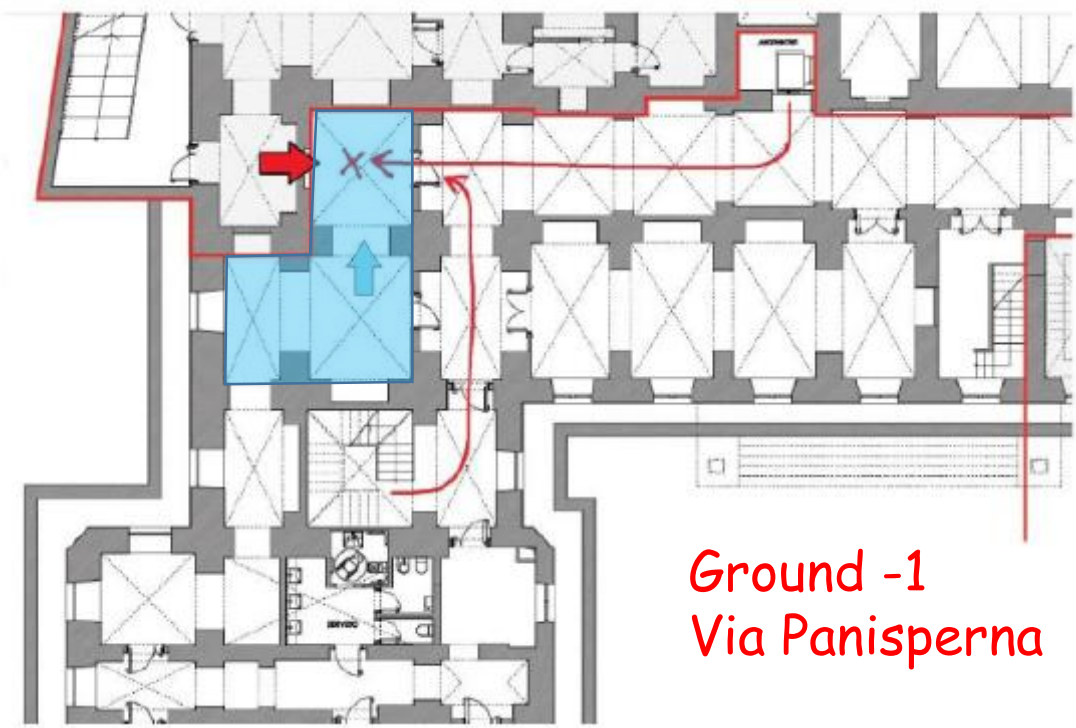


PREMIALE SAHF

Typical industrial cabinet for tomography, with an X microfocuss tube and a flat-panel detector



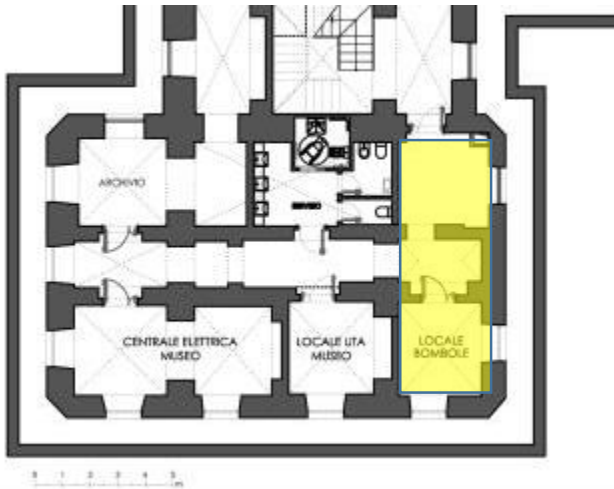
Micro-imaging XRF and Raman Spectroscopy



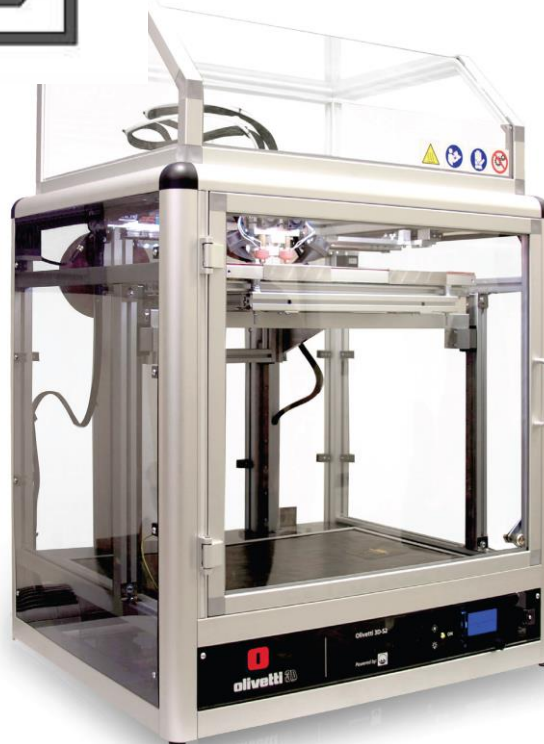
Ground -1  
Via Panisperna



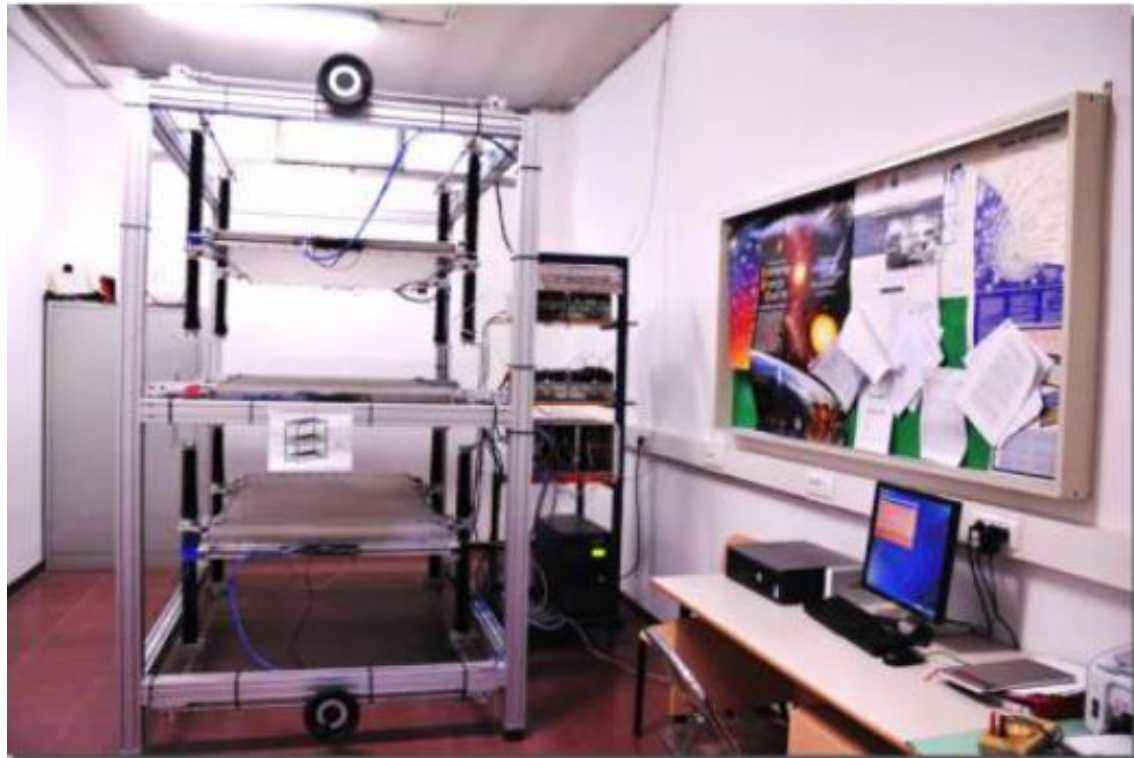
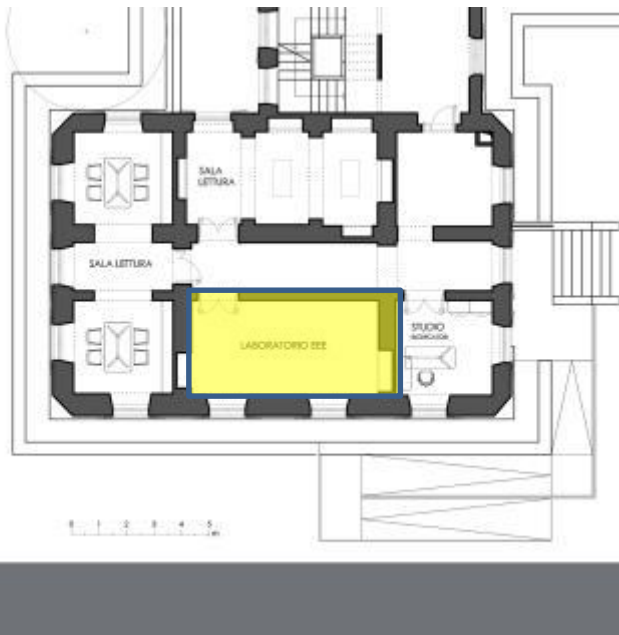
# Floor -1 : Light mechanical workshop



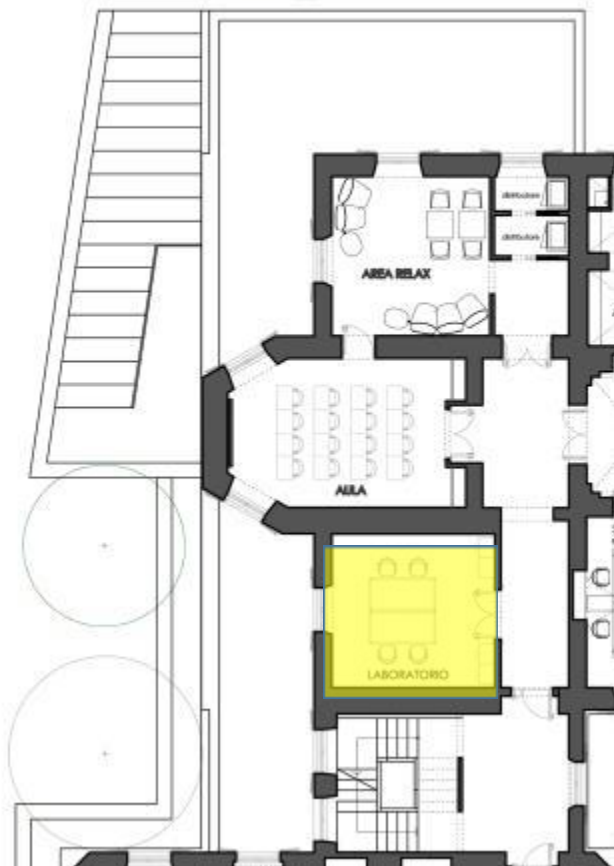
3D printer



# Floor 1 : EEE Lab



1° LIVELLO



## Floor 1 : Laboratory space

22 m<sup>2</sup> available on project requests

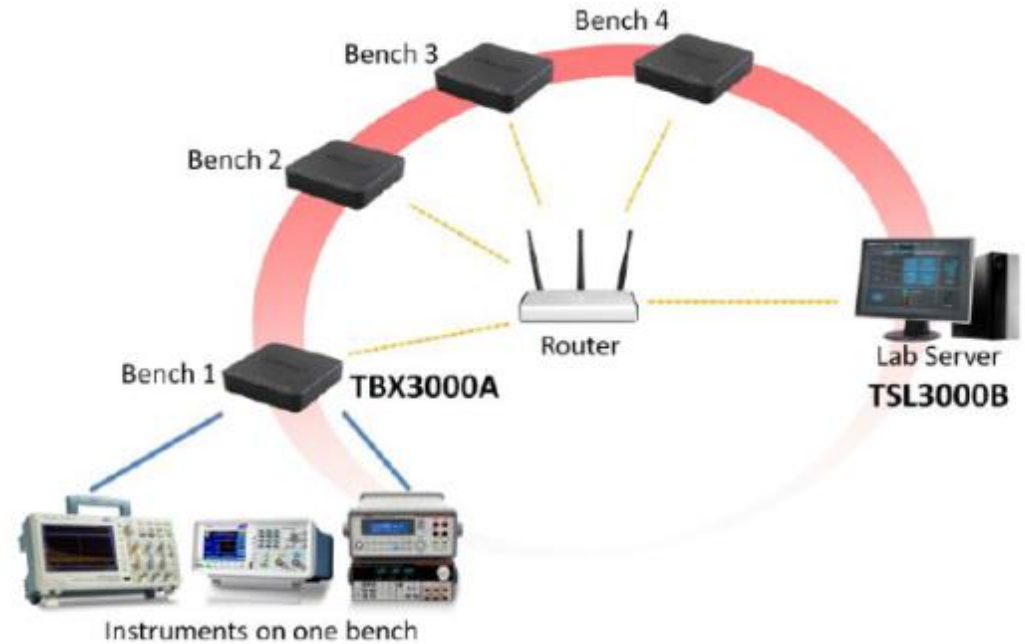
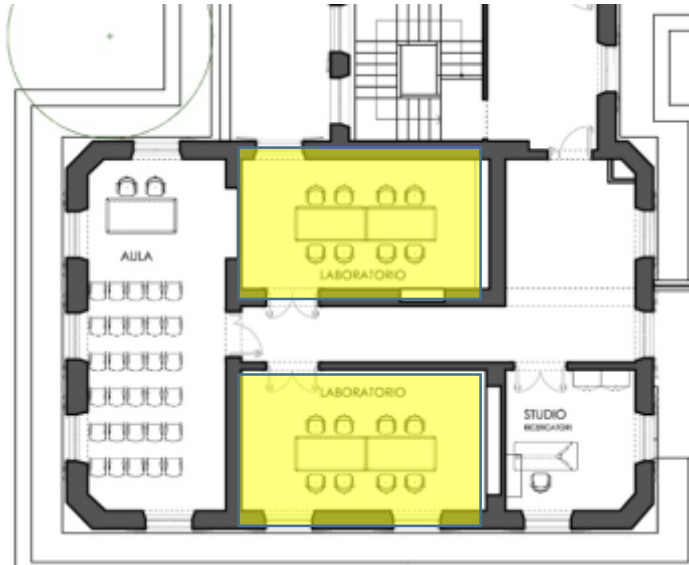
Micro-imaging XRF

Optical tables

Electronic developments

....

# Floor 2 : Aula and Laboratories



<https://www.youtube.com/watch?v=L7TE6wMxEJA>



## Goals

- Develop an Open Data Platform, based on Open Source software
- improve student participation to monitoring and data analysis, sustaining in particular schools without a telescope;
- develop a number of educational paths to stimulate and widen the scientific and technological learning opportunities for the students;
- implementation of an Open Data portal with a "Citizen Science" approach to the EEE experiment.

### *WP2.1 Masterclasses on data analysis and hardware for EEE*

reference material by teachers and students from the schools.

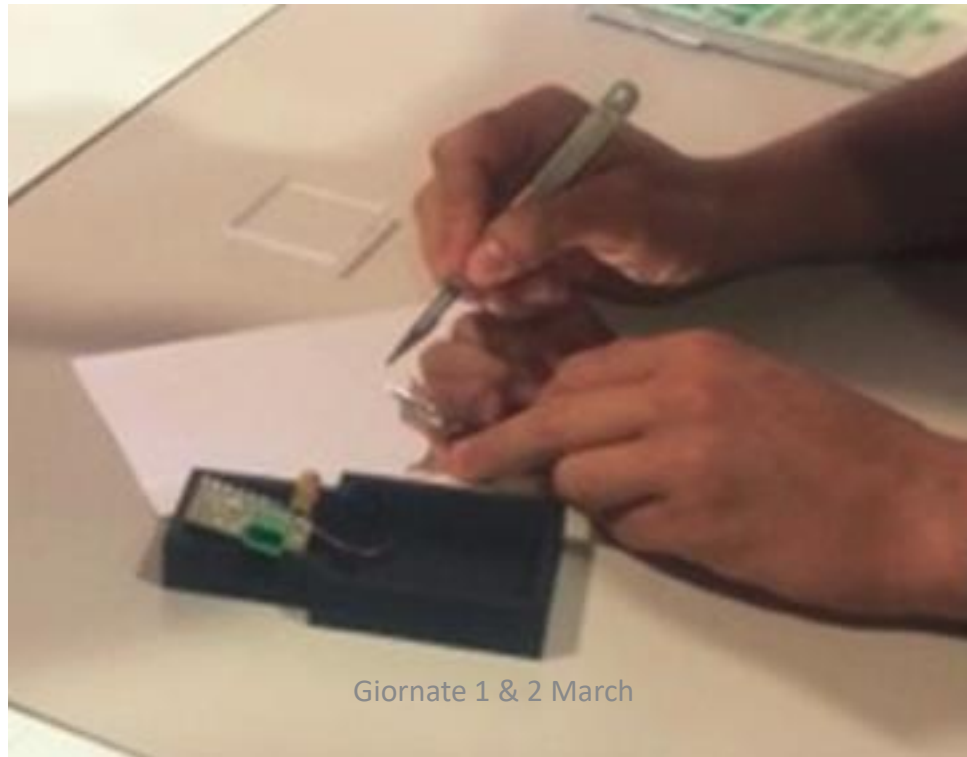
Especially for students from schools without telescopes, masterclasses on hardware aspects will be organized at the headquarters of Centro Fermi. To this purpose a telescope will be installed in via Panisperna. Moreover a light laboratory (with oscilloscopes, detectors...) will be equipped to let the students to become familiar with instruments typically used in particle physics.

### *WP2.4 Training days for teachers of the EEE experiment in Rome*

### *WP2.5 Week for foreign teachers and researchers in Rome*



Visiting schools may  
build Cosmic Boxes  
with assembly kits

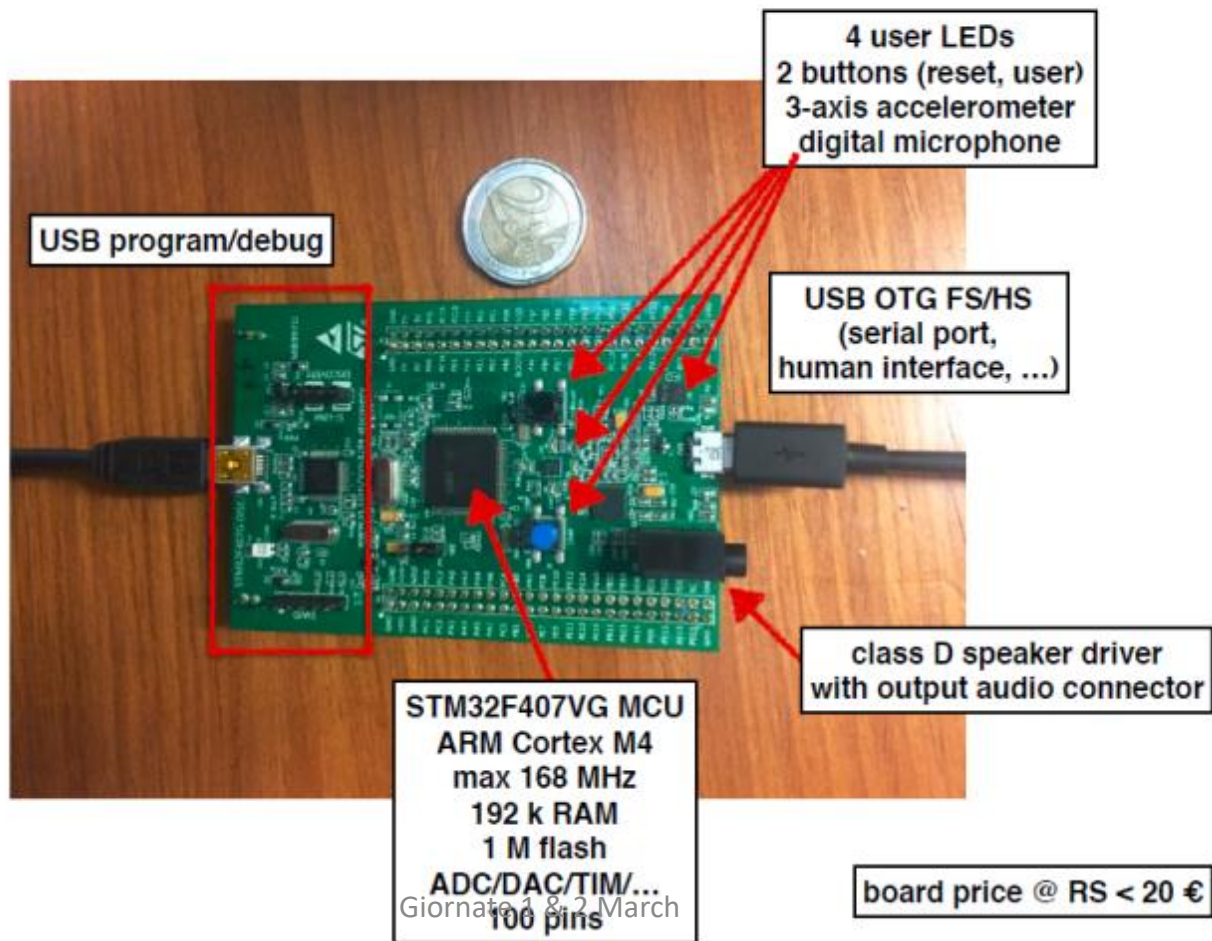


Giornate 1 & 2 March

Possibility for students to program a one-card readout for the cosmic box

## STM32F4DISCOVERY board

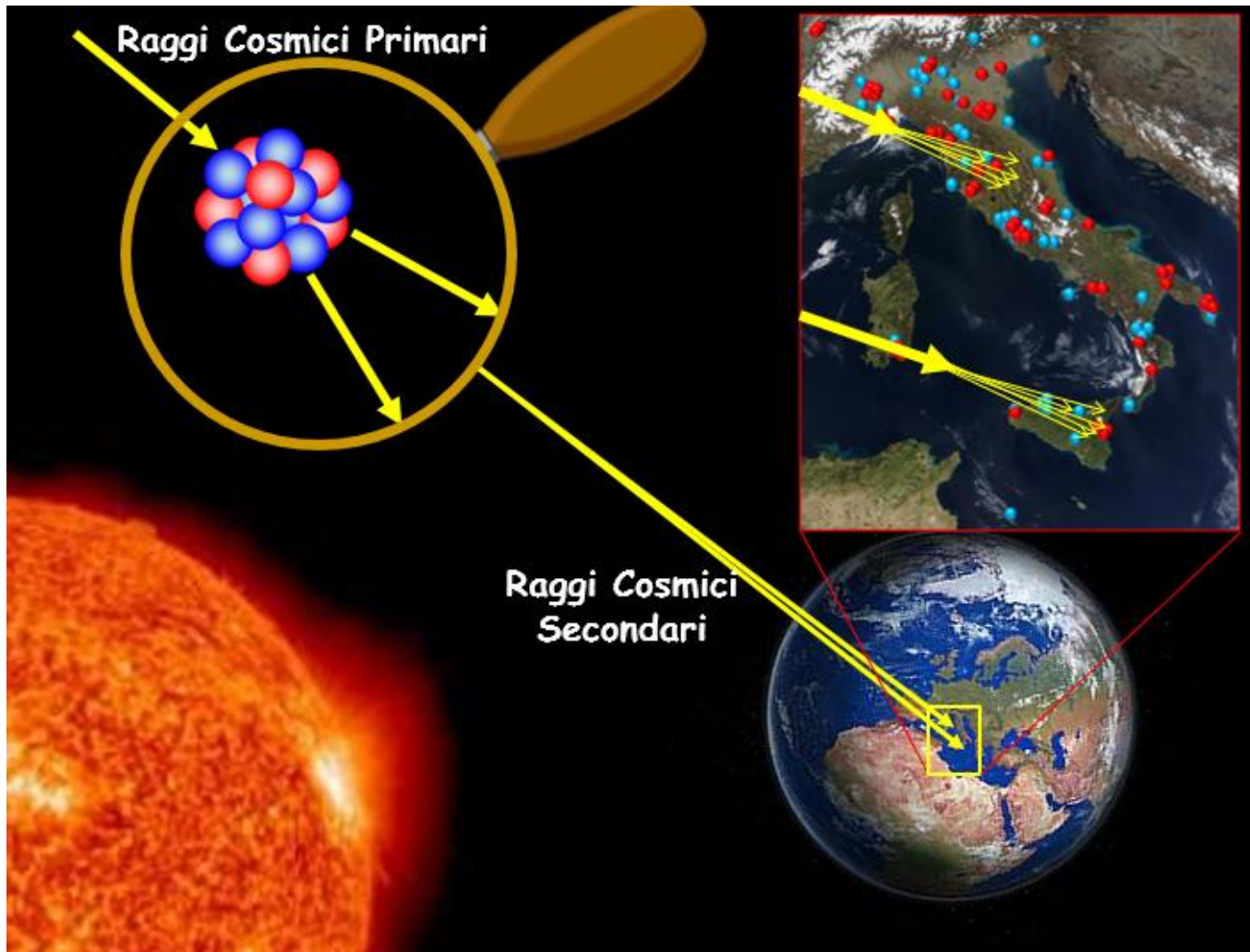
<http://www.st.com/en/evaluation-tools/stm32f4discovery.html>



ERC Consolidator Grant 2017

# Large Distance COsmic Ray Endpoint : LDCORE

create an extended network infrastructure to search for cosmic ray correlations at large distances (from 10 km up to few thousand km) across an area as large as Europe.





# Summary preliminary space allocation

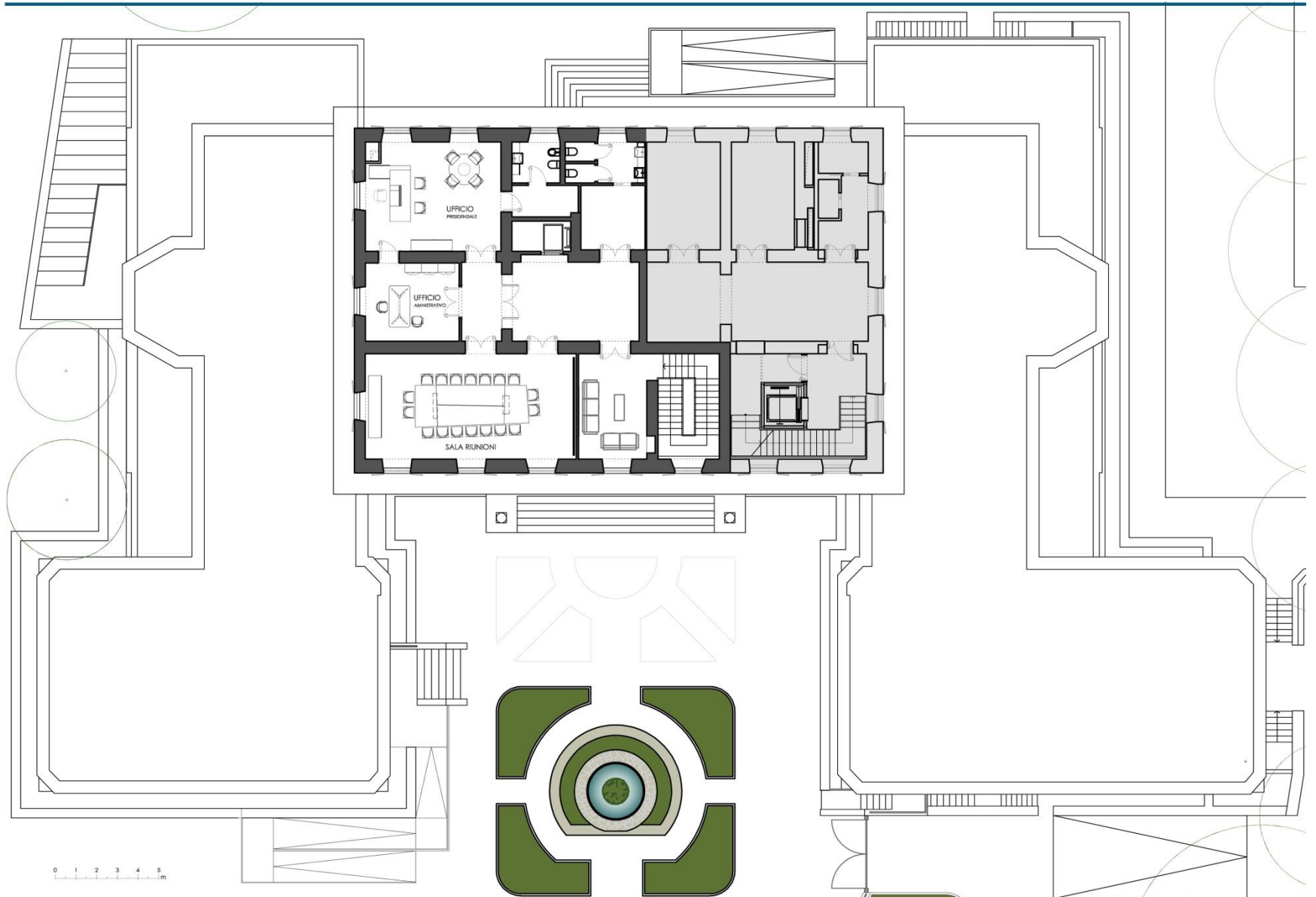
|   | Where | # seats   | m <sup>2</sup> |
|---|-------|-----------|----------------|
| Aula Fermi  | L0    | 114(+2)+5 |                |
| Small lecture Room                                  | L1    | 16        |                |
| Middle lecture Room                                 | L2    | 30        |                |
| Meeting Room  | L2    | 12        |                |
| Meeting Room  | L3    | 20        |                |
| Library   | L1    | 12        |                |
| Reading room / Open space                           | L1    | 10        |                |
| EEE Lab   | L1    |           | 25             |
| Laboratory space                                    | L1    |           | 22             |
| SAHF Lab  | L-1   |           | > 46           |
| Mechanical Workshop                                 | L-1   |           | > 22           |
| Student Lab   | L2    | 16-20     | 55             |
| Researchers/project/visiting scientists/PoP Offices | L1-L2 | 6*2 2*1   |                |
| Administration offices                              | L2-L3 | 5*2       |                |
| Directional offices                                 | L2-L3 | 3*1       |                |

# Reserve

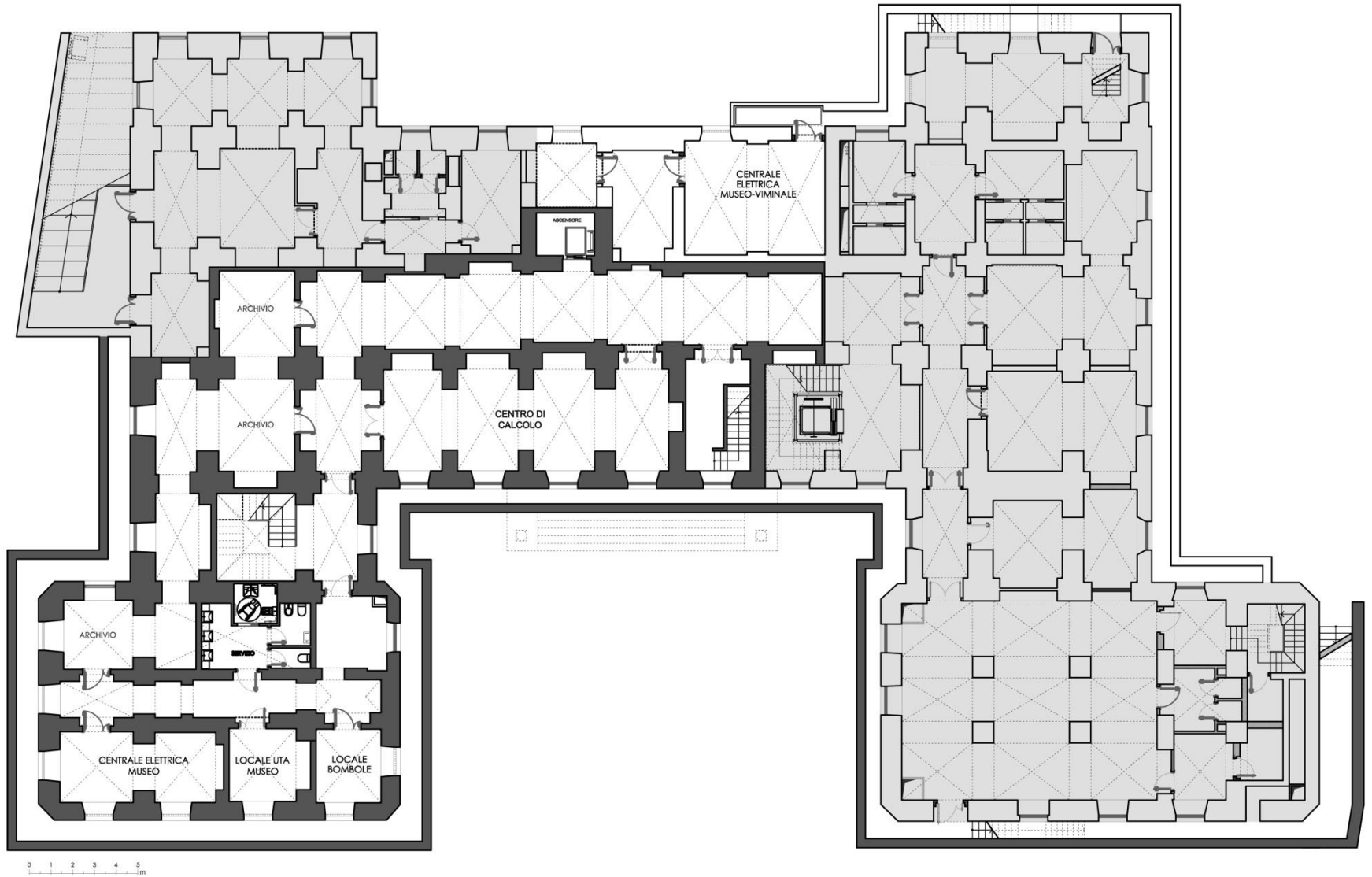
# 1° LIVELLO







## PIANO SEMINTERRATO



## PIANO SEMINTERRATO

Ambienti riservati alla .....

 CENTRO DI CALCOLO

 CENTRALE ELETTRICA  
MUSEO FERMI

 LOCALE UTA

 LOCALE BOMBOLE

 ARCHIVIO

 CENTRALE  
ELETTRICA  
MUSEO FERMI-VIMINALE

