# Argentine National Atomic Energy Commission (CNEA)

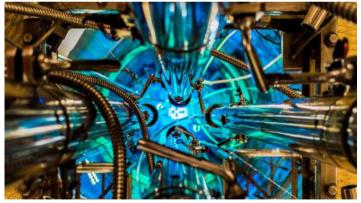
**Involvement in HECAP projects** 



# Organization

- Autonomous body under the jurisdiction of the Office of the Cabinet Chief of Ministers.
- Headquarters in the city of Buenos
  Aires with presence in different
  regions of the country.
- All its activities are framed within the peaceful uses of nuclear energy.
- More than 74 years of history.







# Organization

- Three **Atomic Centers** (build, operate & maintain reactors for research).
- Three Academic Institutes (linked to National Universities).
- Approximately 3,000 employees.
- 2024 total budget ARS 113.641.438.450 (~117 MUSD)







The High Energy connection

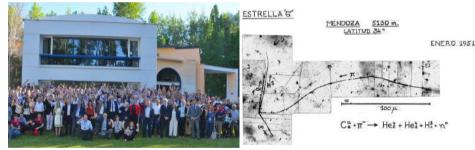
 1954: Installation of observatories to measure cosmic radiation began in the country, creating a network that included Jujuy, Buenos Aires, Tierra del Fuego and Antarctica.

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1995: Pierre Auger Observatory



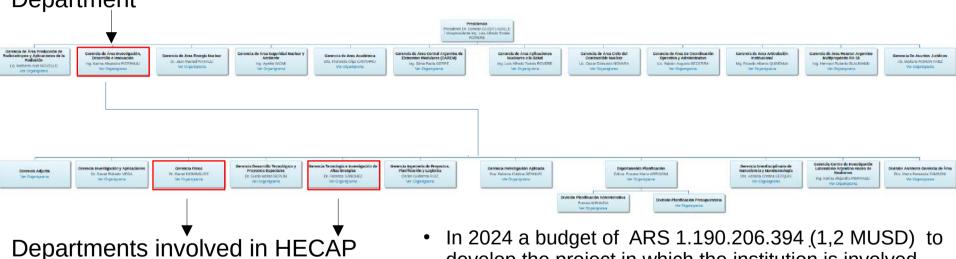






# **CNEA** organizational chart

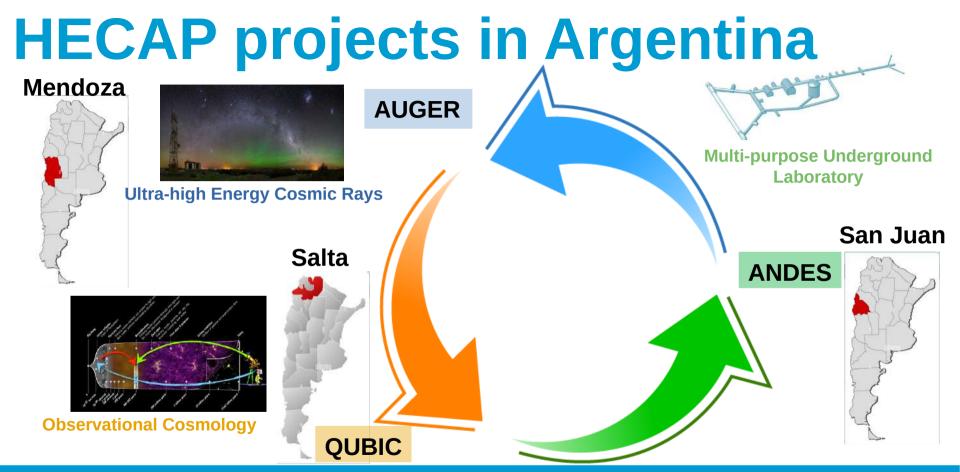
Non-nuclear projects managed by R&D Department



projects supported by CNEA

- develop the project in which the institution is involved
- More than 70 people (scientist, technicians, students)









## Highly qualified human resources





#### **Double Doctoral degree in Astrophysics (DDAp)**

- Since 2015
- 18 graduates (9 at KIT & 9 at UNSAM)
- 19 ongoing students (6 at KIT & 13 at UNSAM)

## **Double Doctoral degree in Engineer & Information Techonology (DDEIT)**

- Since 2020
- 1 graduate (at UNSAM)
- 6 ongoing students (5 por UNSAM y 1 por KIT)









## **LAHN:** Argentine Neutron Beam Laboratory

- Use of high-intensity beams at nulear reactors (RA-10)
- Large-scale open and user-oriented facility





#### Foreseen instrumentation for:

- Neutron diffraction
- Neutron imaging
- Neutron stress & strain scanning
- Inelastic neutron scattering
- Small-angle neutron scattering
- Neutron reflectometry

There is room for other instruments & partnerships



# Financial engineering



(1429) Ciudad Autónoma de Buenos Aires

Ahuekna took over from FOPAA (Fundación Observatorio Pierre Auger de Argentina) in May, 2015. Money flow plays an utmost important role

#### Since 2015 for Auger:

- Expanded financial services to include foreign trade
- On average, €1.500.000 of operating budget per year.
- On average, 35 personnel per year
- €5.000.000 investment in the upgrade (AugerPrime)
- €2.500.000 in procurement and purchases for the installation of the Radio Detector.
- €2.000.000 for the procurement and purchases for the installation of the AMIGA detector.
- +80 imports for Auger since 2015 Number of imported units +18.000

Similar strategy for QUBIC

CNEA is a funding member of Ahuekna



## Conclusions

### **CNEA contribution to HECAP objectives:**

- Several projects in the region are within the strategic plan of the Institution for the following years (decades).
- More than 20 years of support to the Pierre Auger Observatory.
- Paved road to other projects in the region (QUBIC, ANDES, CTA, SWGO, HERON/GRAND).
- CNEA will strongly support hosting project in Argentina.
- New large-scale & world-class facilities for research in neutron science under development.
- Full commitment in the continuous strengthening of qualified human resources.















