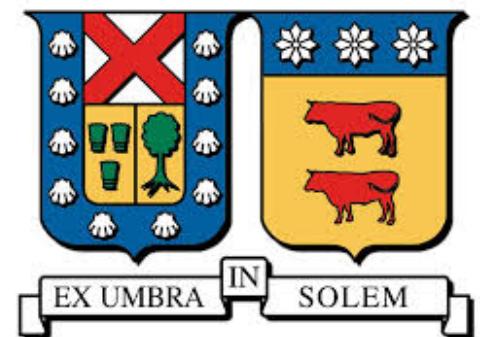
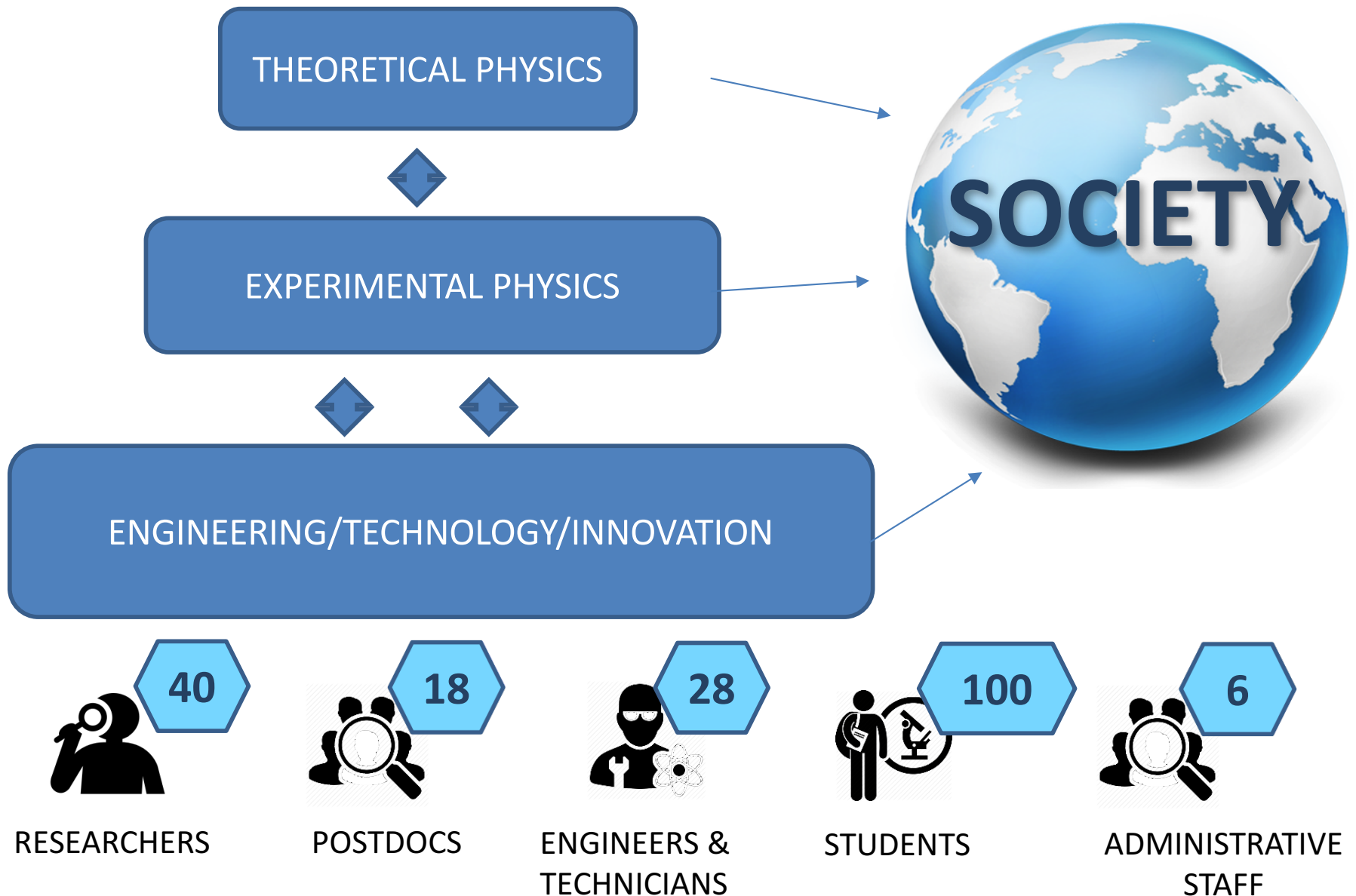


Centro Científico Tecnológico de Valparaíso CCTVAL

Proyectos y desafíos tecnológicos



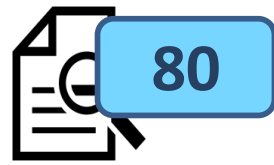
Sobre CCTVAL



Logros



ISI
PUBLICATIONS



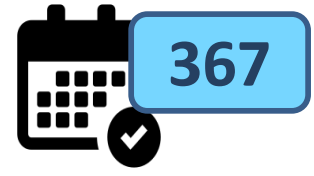
NON ISI
PUBLICATIONS



THESES



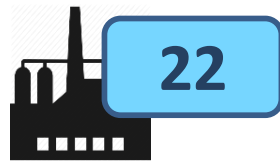
COLLABORATIONS



PARTICIPATION
IN SCIENTIFIC
EVENTS



SCIENTIFIC
EVENTS
ORGANIZED
BY THE CENTER



LINK WITH
THE
INDUSTRY



OUTREACH
TALKS



PATENTS
APPLICATIONS



PATENTS
GRANTED

Colaboraciones Internacionales



JOINT INSTITUTE
FOR NUCLEAR RESEARCH

Evolución del CCTVAL



2007



Hiring 3
International
Researchers
Start
collaborations:
CERN
JLab

2008



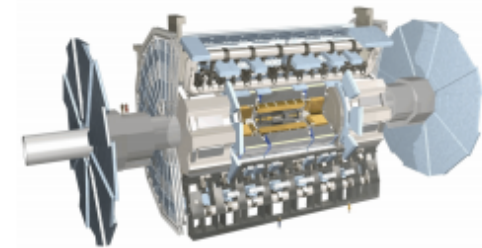
Experimental Particle Physics
New equipment
Mobility CERN-Jlab
Fermilab-MINERVA collab.

2009-2013



5 Research Groups
5 Labs
3 spinoff companies .
28 Researchers (14 from
abroad)
more than 150 people

2014....



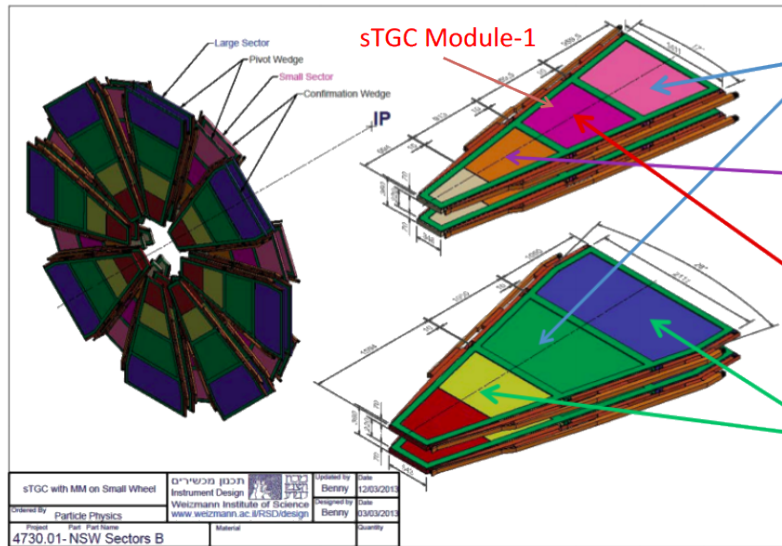
Atlas upgrade project



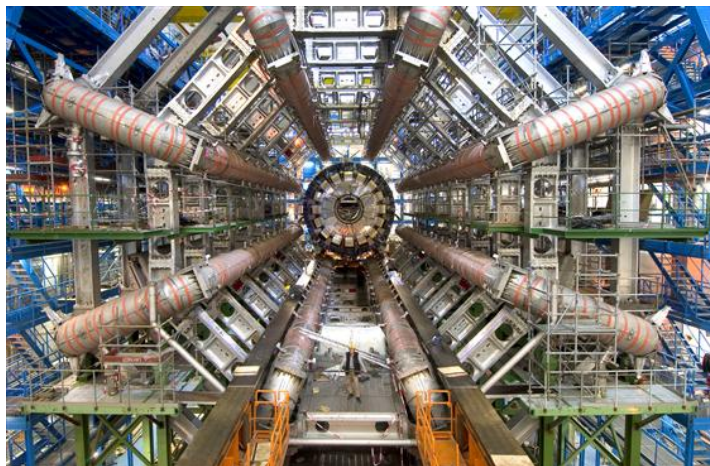
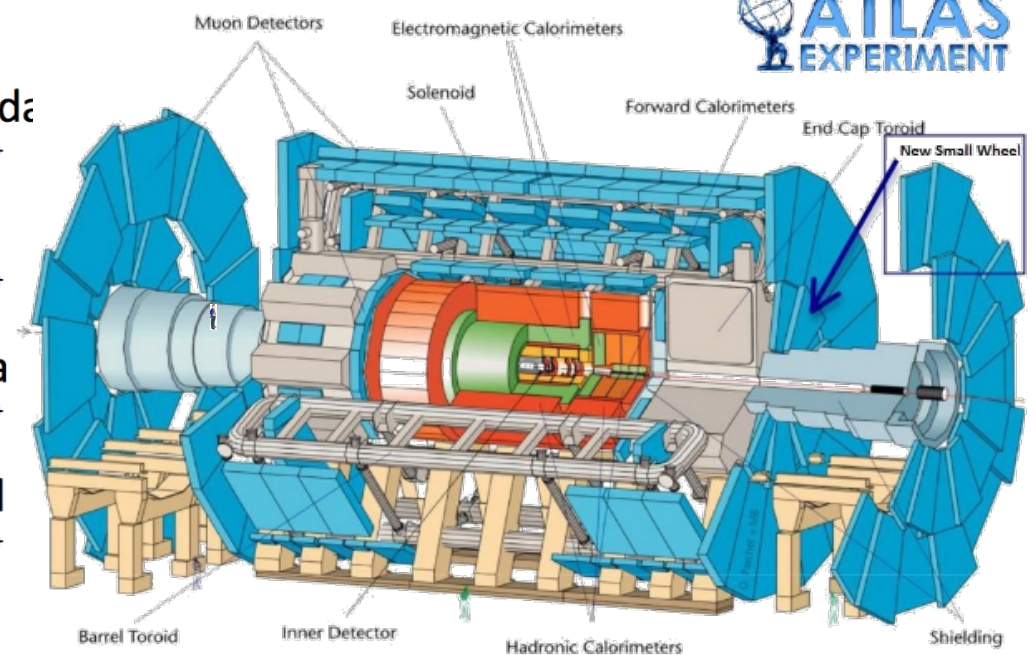
**ANDES underground
laboratory project 2020**



ATLAS Upgrade -sTGCs

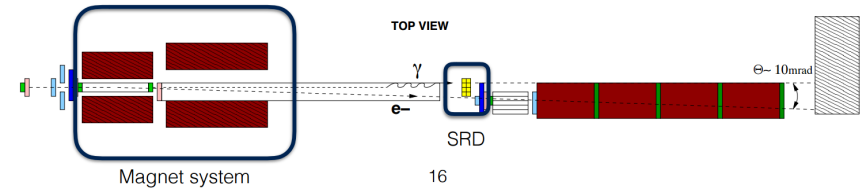
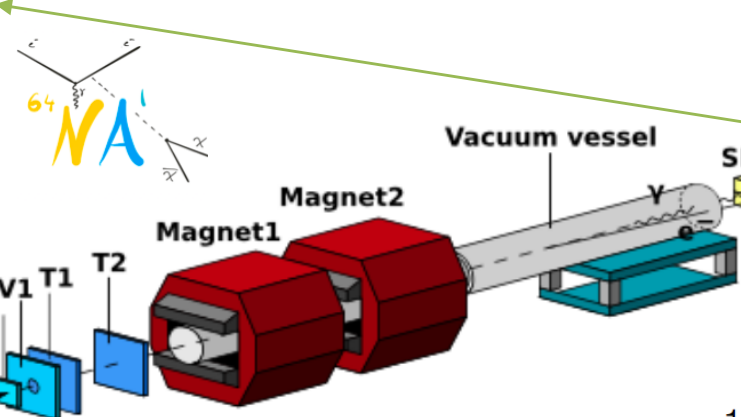
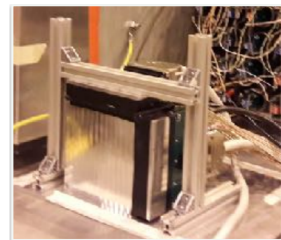
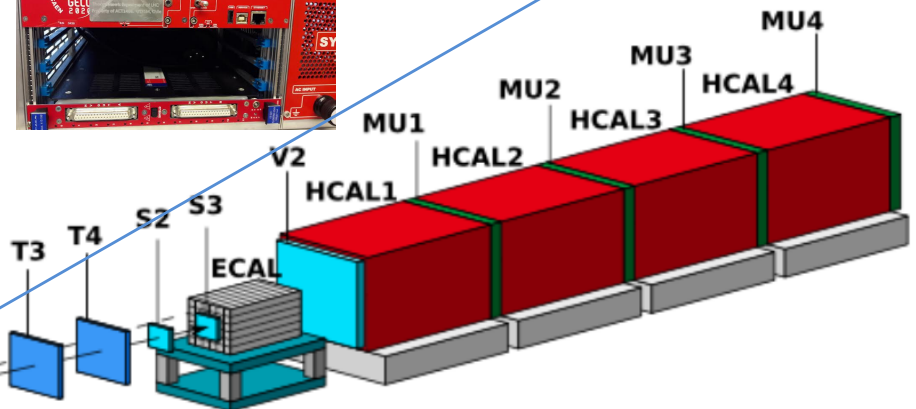
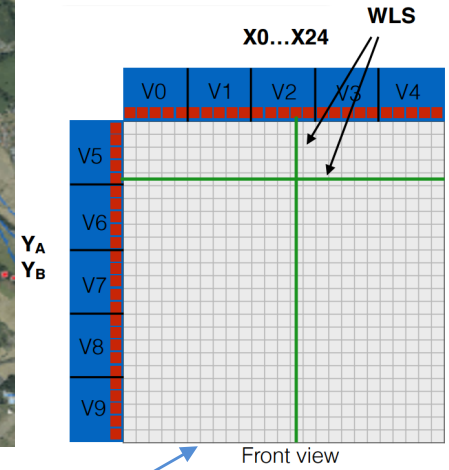
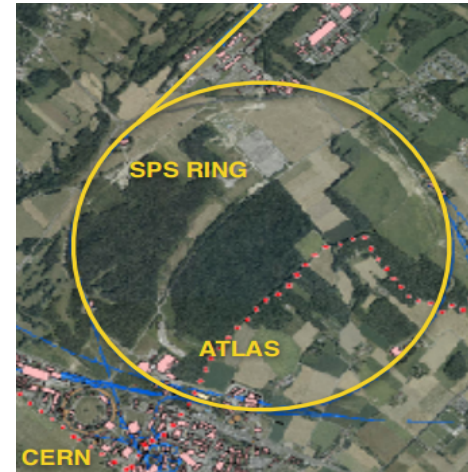


- **Canada**
64 quadruplets + 6 spares
- **Chile**
32 quadruplets + 3 spares
- **China**
32 quadruplets + 3 spares
- **Israel**
64 quadruplets + 6 spares





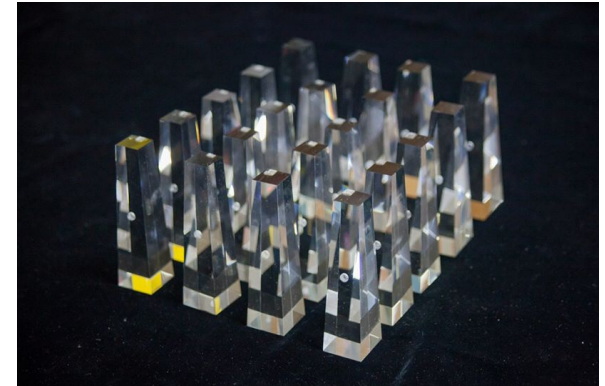
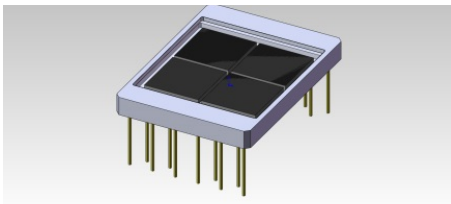
NA-64 Experiment



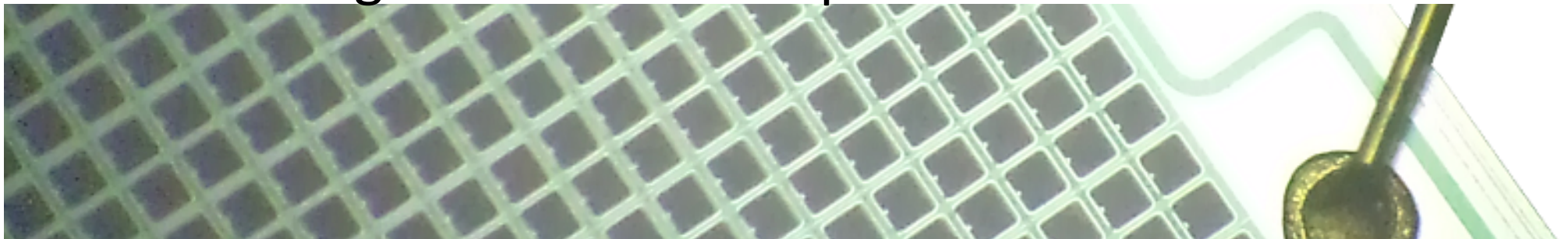


Proyectos completados

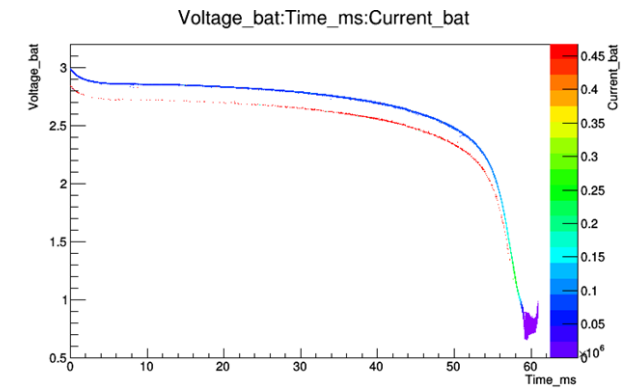
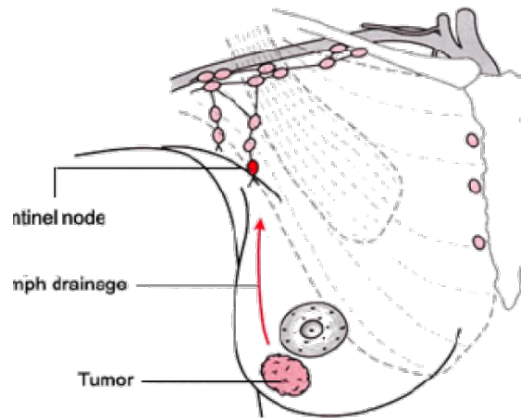
- Fabricación de 4,000 guías de luz para el experimento Glue-X en Jefferson Lab.



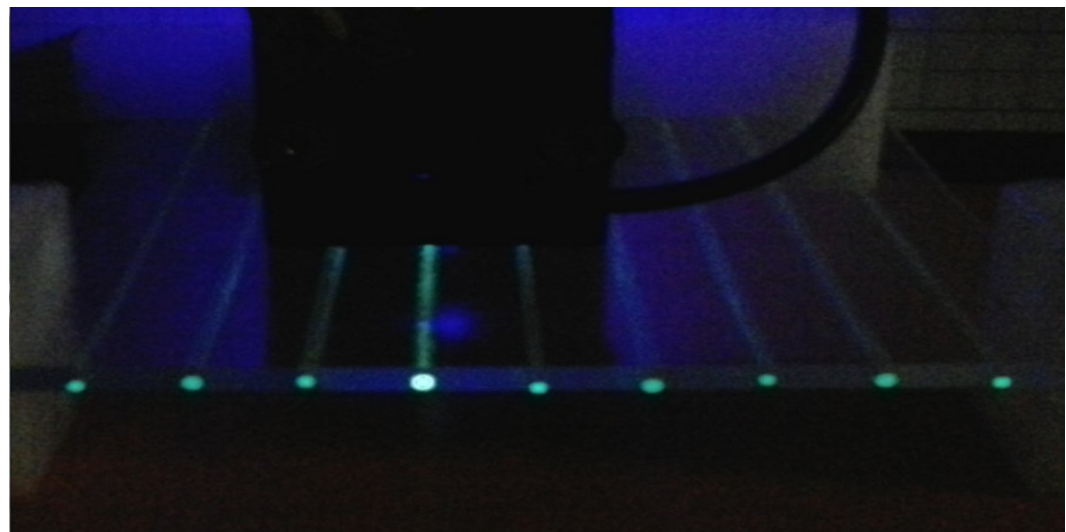
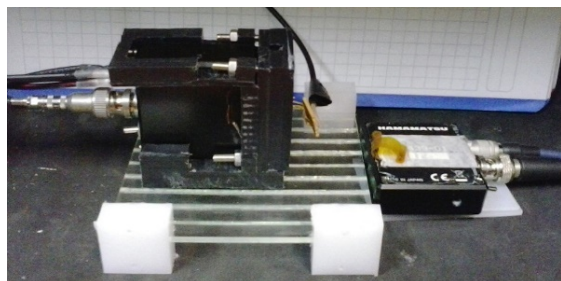
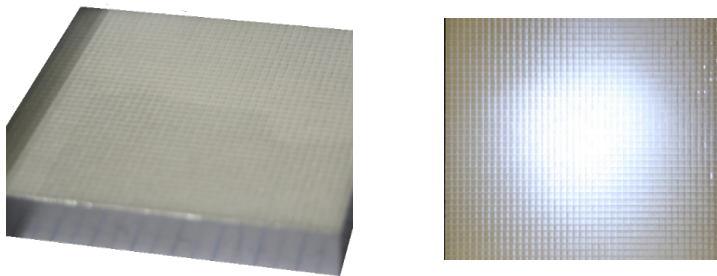
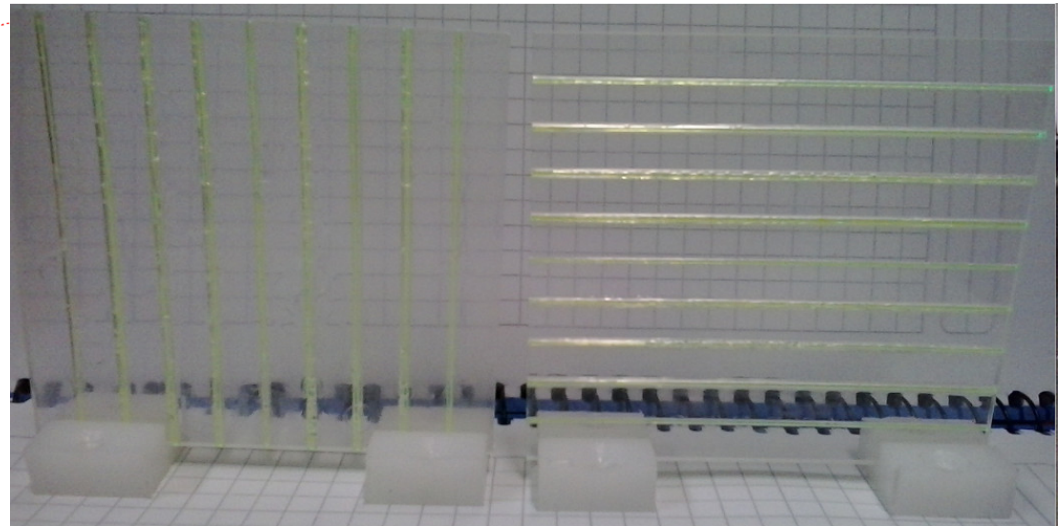
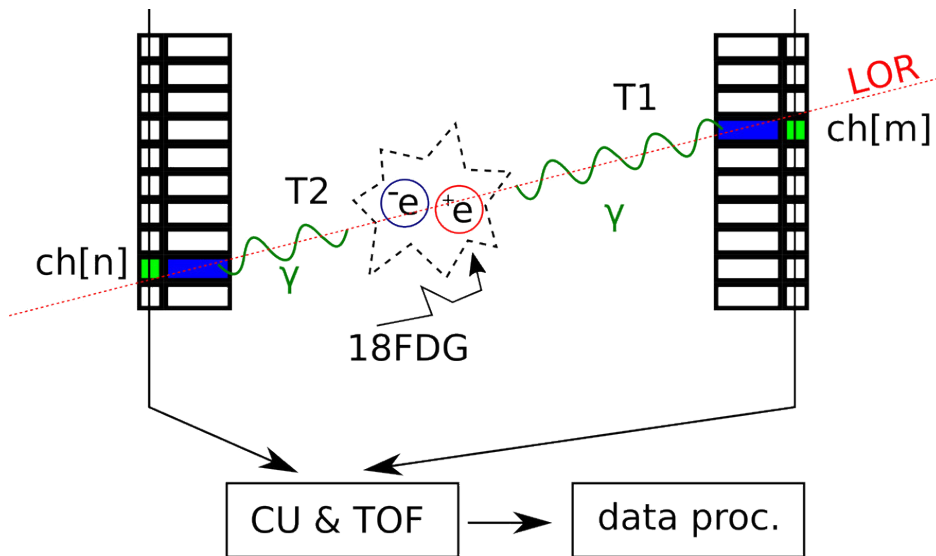
- Caracterización de 2800 mppcs para el Calorímetro electromagnético Bcal del experimento Glue-x. J-Lab



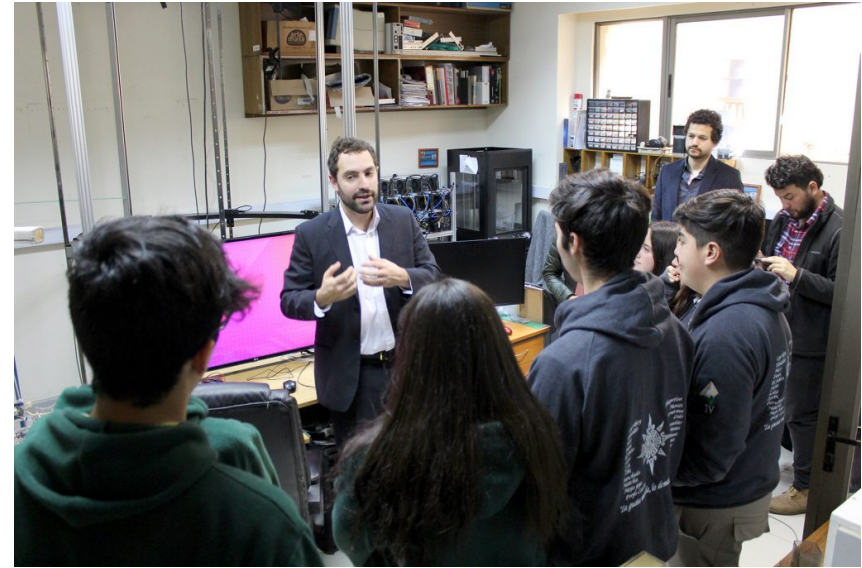
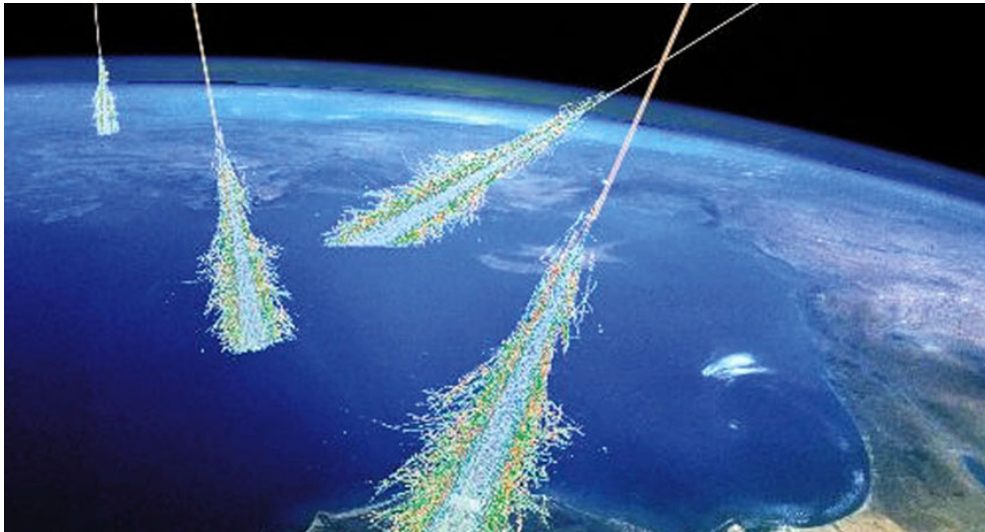
Proyecto CCTVal: Gamma Probe



Proyecto CCTVal: Mini-pet



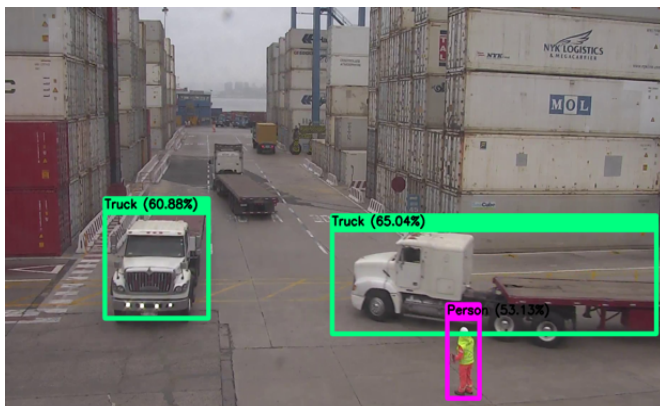
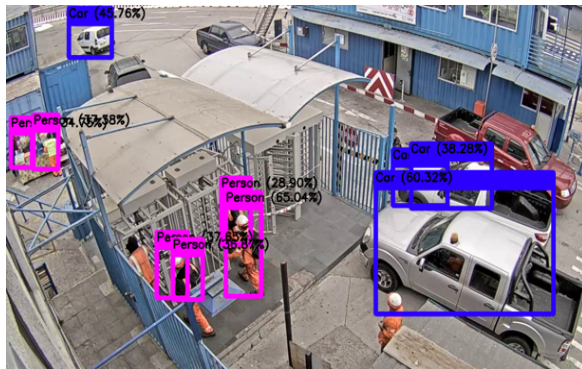
Telescopio de rayos cósmicos



Proyectos con las industrias



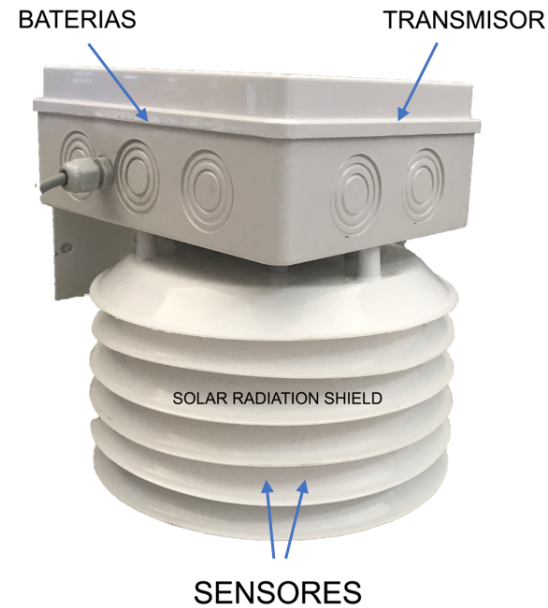
Video Analytics



Estación de monitoreo Para partículas en suspensión



Superintendencia del Medio Ambiente
Gobierno de Chile



Blockchain energy solutions





Gracias!

- **Centro Científico Tecnológico de Valparaíso, CCTVal**



CENTRO CIENTÍFICO
TECNOLÓGICO
DE VALPARAÍSO