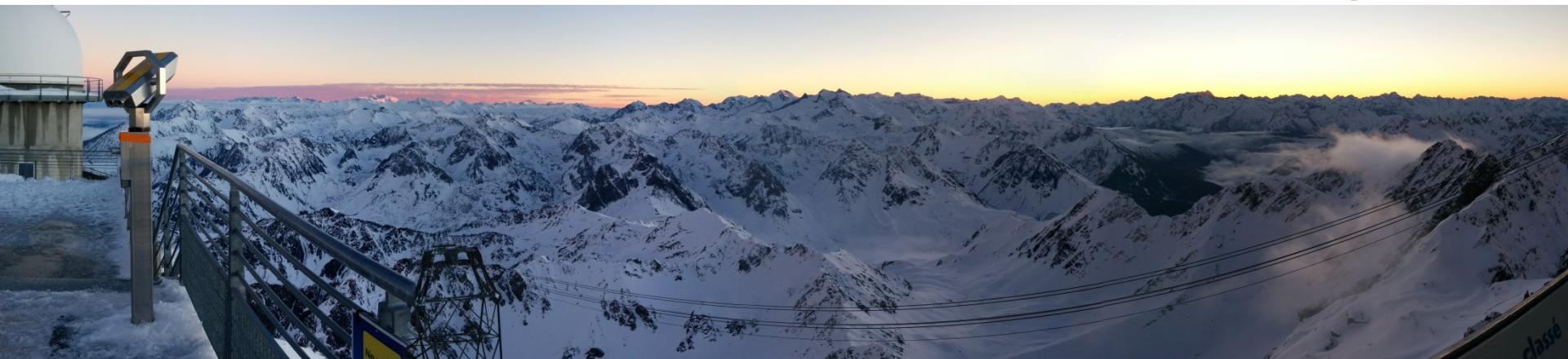


Plateforme Pédagogique Rayons cosmiques Pic du Midi

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The project : in a few words

- **Pic du Midi / Cosmic rays**
(altitude, history)
- **Simple, robust and modular detection system**
(plastic scintillators units)
- **Multiple experiments proposed**
(cosmic shower, muon decay, geomagnetic effect, muon magnetic moment, etc)
- **Remote data acquisition**
(web portal)
- **From discovery (high school) to deep studies (Master)**

Equipment

**12 rectangular plastic scintillator 250 x
400 x 20 mm³**

**8 cylindric plastic scintillator 50
mm diam. x 300 mm long.**

25 PM 2''

15 array unit

4 QuarkNet data aquisition



Experiments

- **Rossi**
- **Cosmic shower**
- **Muon decay**
- **Geomagnetic effect**
- **Muon magnetic moment**
- ...

Physics experiments

- Rossi



- Cosmology

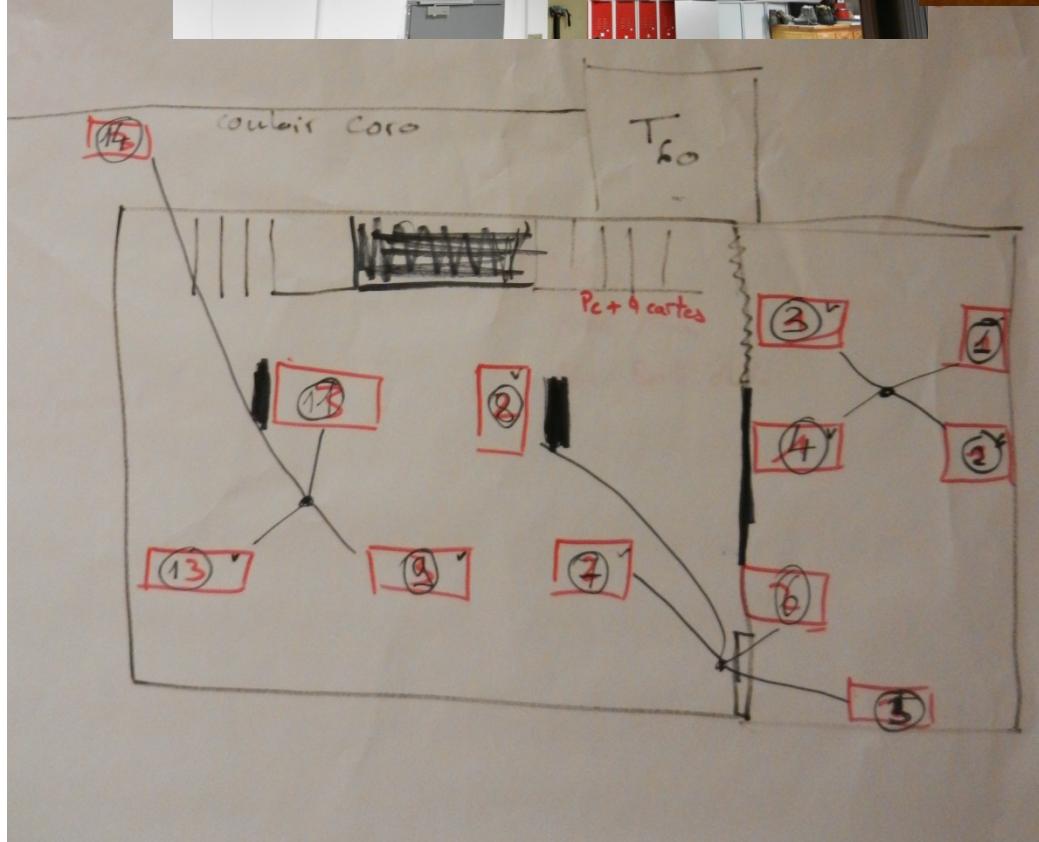
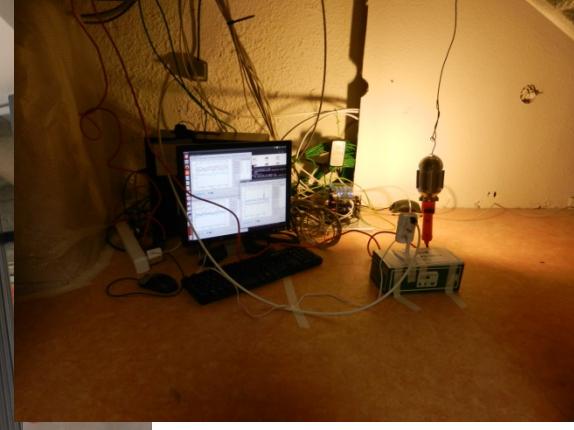
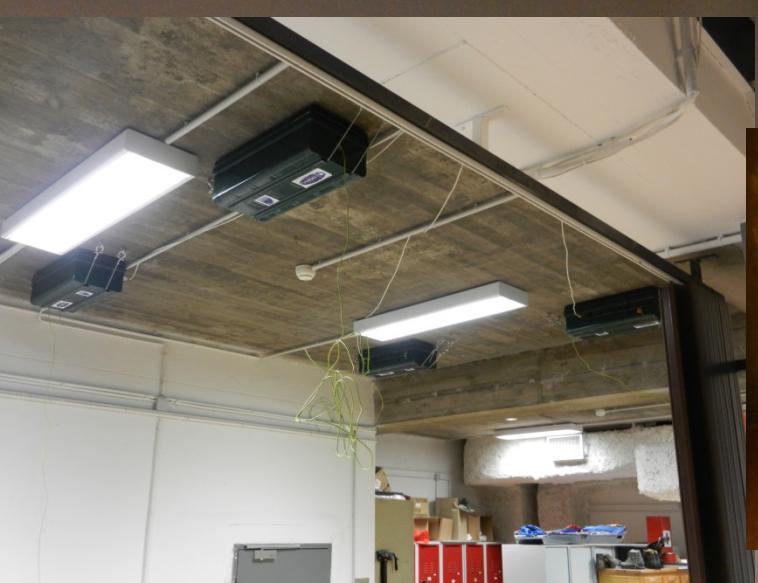


- Much more

- Geodesy

- Much more

- ...



Experimental status

- **Long term check**
 - **Remote access : VNC + Webcam**
- **Next installation phase : may 2015**

The platform

- **Education portal dedicated to cosmic rays**
 - **From high school to Masters**
 - **# experiments / datas from Pic du Midi (real time + long term)**
 - **Balloon data + cloud chamber**
 - **Masterclasses**
 - **Link to OCEVU science (ANTARES, CTA, HESS...)**
 - **Innovative resources : social network, serious game**
- **Partnership**
 - **High schools : Science à l'Ecole, Musée du Pic du Midi, outreach innovative actors, physics teachers...**
 - **University : Masters (AMU, UM2, UPS)**

Video presentation on OCEVU website and Youtube

The image shows a composite background with various scientific and academic terms overlaid in a light blue and white font. On the left, 'astroparticles', 'cosmology', and 'particle physics' are visible. On the right, 'research', 'training', 'technology', and 'transfer' are visible. In the center, there is a screenshot of the OCEVU website.

OCEVU **Origines Constituants & EVolution de l'Univers** **A*Midex** **INSTITUT DE PHYSIQUE DU MILIEU**

Accueil Labex OCEVU Projets Vie scientifique Culture scientifique Offres d'emploi Actualités Internes

Accueil > Projets > Formation

Plateforme de TP - Rayons cosmiques

Science ▶ Formation ▶ Projets interuniversité

Plateformes techniques ▶ Plateforme de TP - Rayons cosmiques

Transfert technologique

La plateforme pédagogique de détection de rayons cosmiques au Pic du Midi est un projet initié par le Labex OCEVU. Ce portail entièrement dédié aux rayons cosmiques s'adressera aux enseignants et aux élèves, depuis la seconde jusqu'au Master.

Plateforme pédagogique de rayons cosmiques au Pic du Midi