



French-Ukrainian WORKSHOP

Instrumentation developments for high energy physics

November 6 – 8, 2017 LAL – Orsay FRANCE

Introduction

Véronique Puill





Welcome to LAL



Total area of 16 000 m² with 6000 m² of halls, workshops and clean rooms



- Largest IN2P3/CNRS laboratory dedicated to **Particles Physics, Cosmology and Astroparticles**

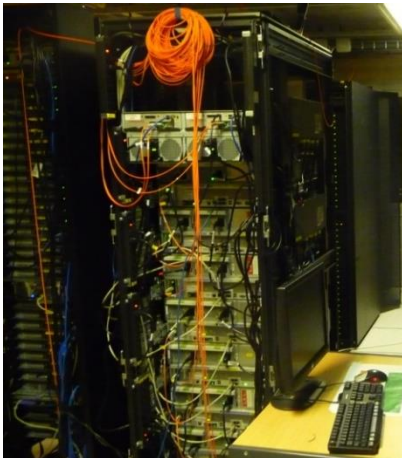
~ 110 physicists, PhD students (70% / 30%)

~ 200 technical and administrative staff

25 different languages spoken !!

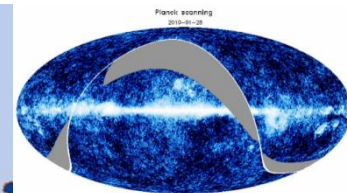
Meilleurs Vœux Best Wishes 多幸を祈りつつ Felice Anno Nuovo ! Gott nytt år !
 Kellemes ünnepeket 新年好! ; Feliz Año Nuevo! عام سعيد Χρόνια πολλά Un An Nou Fericit!
 asseghwas amegaz 良い年をお迎えください Alles Gute zum Neuen Jahr Những lời chúc tốt đẹp nhất
 شاد و کامروا باشید Selamat Berjaya Tratan'ny taona Найкращі побажання Srečno novo leto
 feliz año novo Наилучшие пожелания نیا سال مبارک Vše nejlepší Wszystkiego Najlepszego

- Four Technical Departments, a large activity on Accelerator R&D





Involvement in experiments in Europe, USA, Argentina, Japan and even in ... space

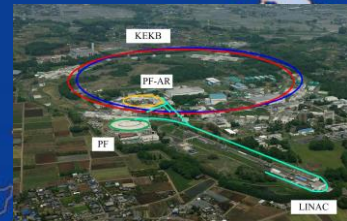


Ontario
(EUSO-Ballon)



Cerro Pachón

Auger

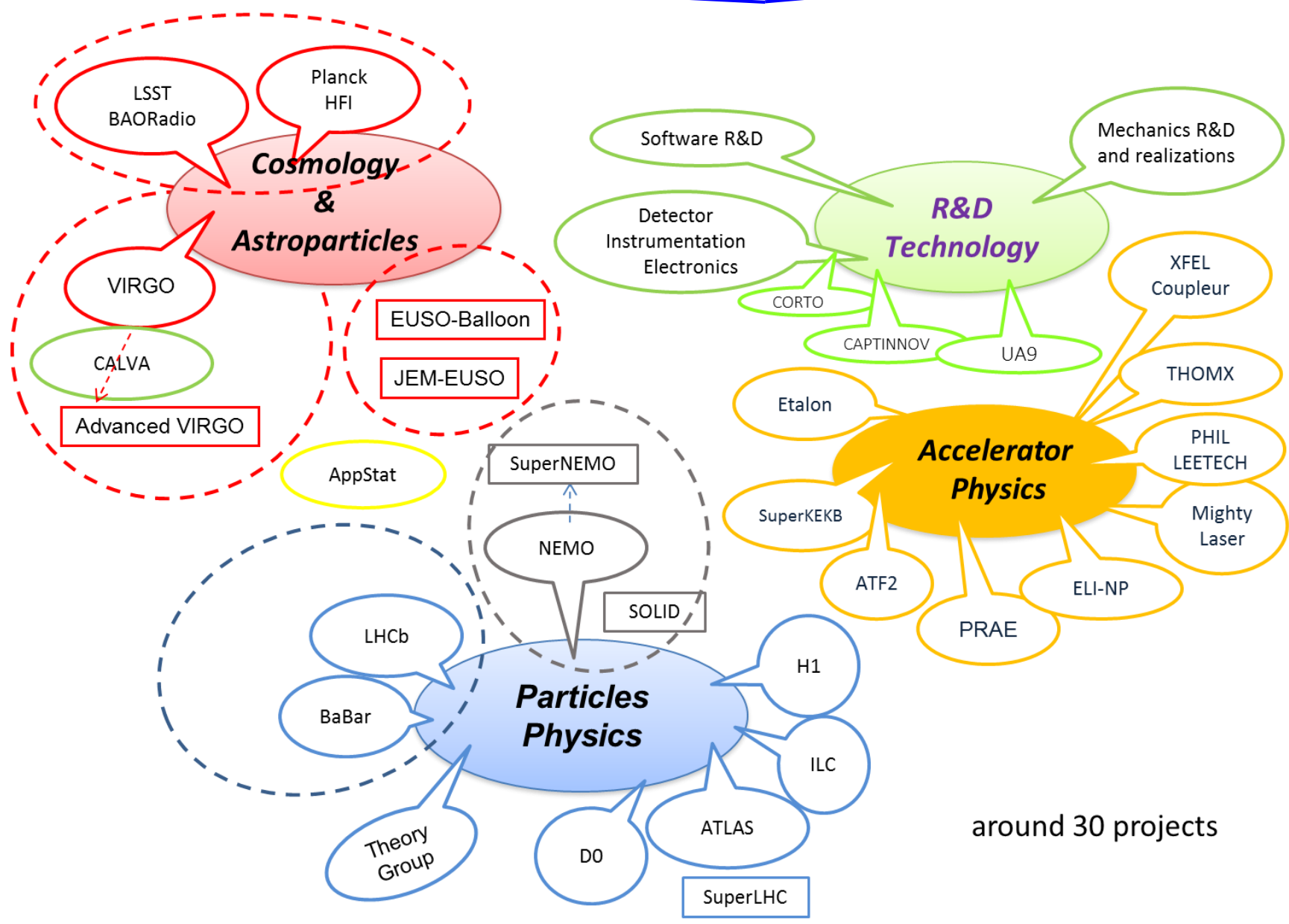


KEK





LAL projects and technical activities



around 30 projects

RESEARCH

280 publications

10 PhD thesis

5 conferences/workshops

35 seminars

1700 missions in France and abroad (1,1 M€)

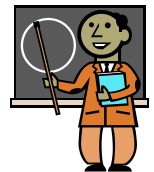


TEACHING & OUTREACH

80 internships

40 people involved in teaching

600 visitors





Management

Co-directors Vice-directors

Sergey Barsuk, for France

Oleg Bezhyko, for Ukraine

Development of the Instrumentation for accelerator experiments, beam monitoring and other applications



LIA contract signed on June 25th, 2015



The LIA members participate in the organization of the summer and winter schools within the TESHEP pedagogical platform aiming at reinforcing East-West Europe scientific and pedagogical links.

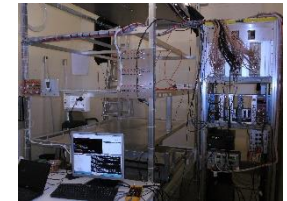
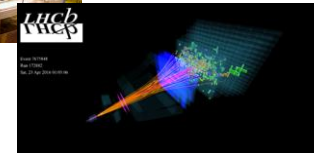
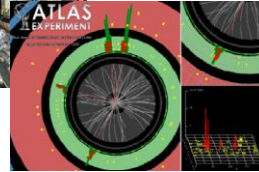
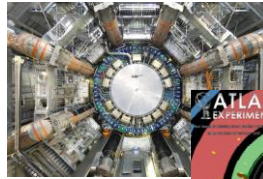
La «Trans-European School of High Energy Physics » fête ses 10 ans

Dominique Longpréts ILL - ORSAY 2016

Транс-Європейська школа фізики високих енергій
святкує 10 років

Joint contribution in projects:

- ATLAS HL-upgrade
- LHCb and upgrade
- UA9
- ILD
- RD51 experiment
- ILCTPC collaboration
- BELLE II
- FCC
- platforms: LEETECH, CORTO
- PRAE
- FTOF for the High Intensity Electron Positron Accelerator (China)
-



- **Internships in France** of Bachelor and Master Students at LAL, LPNHE, CSNSM, IRFU, LPC Clermont, IPNO...
- **Ukrainian students at NPAC** and **GI** Master in Paris-Sud
- **PhD students** on joint supervision
- Visits of **Ukrainian** and **French scientists**



French-Ukrainian WORKSHOP

**Instrumentation developments
for high energy physics**

Since 2013

LAL - Orsay, France



- ✓ R&D accelerators and beam monitoring
- ✓ R&D detectors
- ✓ Medical applications
- ✓ Joint developments for HEP and neutrino physics projects
- ✓ Experimental platforms

Important info:

- Workshop picture : this morning during the coffee break
- Diner at the Gramophone tomorrow @ 7 p.m. You still have ... 1 hour to inform Valerie if you wish to come
- Please have a look on the ERDIT program (European Radiation Detection and Imaging Technology Platform) and do not hesitate to propose your contribution



Open discussions, new approaches, new collaborations