

PARTICLE PHYSICS
JOINT LAB
JAPAN - FRANCE



IN2P3



Dapnia



Workshop FJPPL'07

9-12 May 2007

KEK, Tsukuba Japan

Concluding Remarks

Jean-Eudes Augustin, LPNHE Paris

A very successful meeting

- very distinguished participants,
- high quality presentations,
- clear progress in almost all projects,
- at the tip of present research

FJPPL is a success

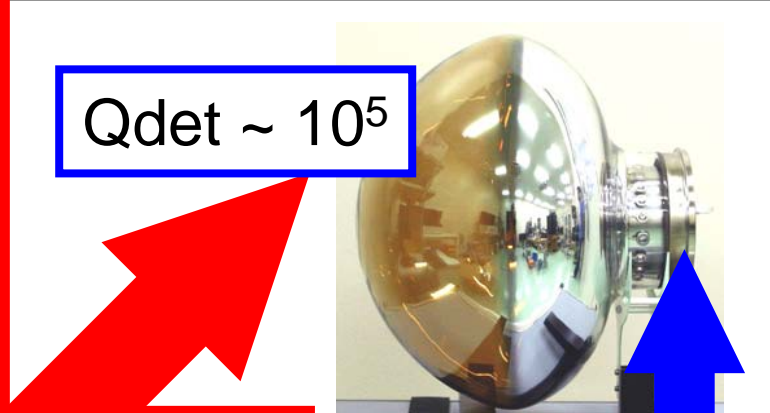
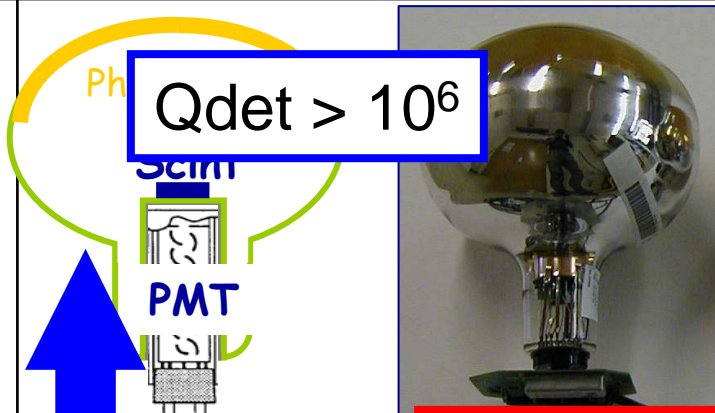
⇒ Excellent and efficient collaboration spirit

R&D - Development of components -

France

Japan

Photon detector R&D

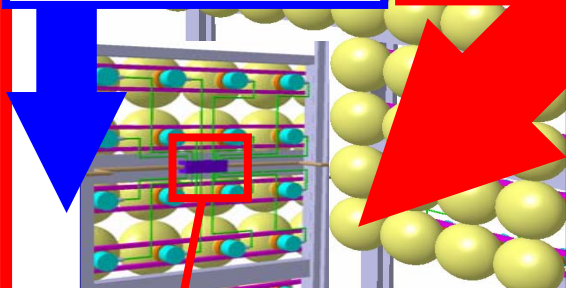


Readout system R&D

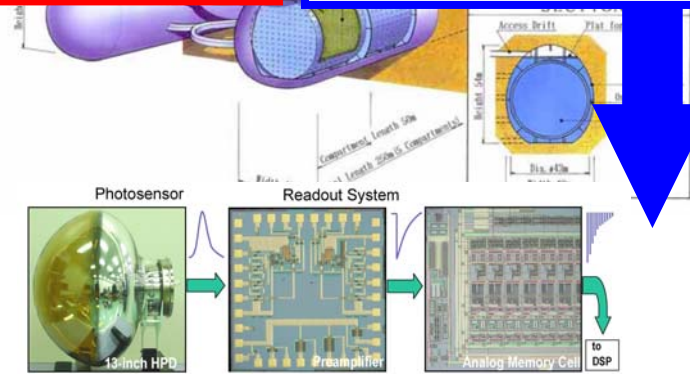
This R&D has been done in France

This combination Development and evaluation of ASICs with HPD

This R&D has been done in Japan



Multichannel FE ASIC, close to the PMTs



Low noise amp ASIC as FE
Waveform sampler ASIC as BE

FJPPL PROJECTS ₁

Detector R&D

D_R_1: Calorimetry and Particle Flow Algorithm

D_R_2: Micromegas end-plate TPC

D_R_3: Mton Water Cherenkov Detector

D_R_4: Large Area Silicon Detectors

D_R_5: Novel Pixel Devices

D_R_6: Liquid Xenon Detector Technology

LHC

LHC_2: ATLAS Computing

LHC_3: SC Magnets for LHC Upgrade

SDA_1: Event Generators Higgs at LHC

B particles

B_1: CKM Fitter

B_2: B Physics

Neutrinos

Nu_1: R&D Neutrino Beam

Nu_1_2: Hadron production for T2K in CERN NA49

Nu_2: 280m Near Detector for T2K

Nu2_WP2: R&D Detector for Reactor Experiments

Nu2_WP3: R&D Detector for Double Beta Decay Expt.

Nu-Bio-1: R&D of emulsion technology for ion therapy

Computing: Comp_3: Grid Interoperability

Accelerator R&D

A_RD_1: Fabry-Perot Cavity for ILC

A_RD_2: ATF2 and MDI for ILC

A_RD_3: High Power Couplers for ILC

A_RD_4: High Gradient Nb Cavities

BioPhysics **Bio_1:** GEANT4 Development

Astro_Particle Physics: **Astro_1:** JEM-EUSO

Excellent coverage of the main issues at hand
in experimental Particle Physics

Particle Physics is at a TURNING POINT

- The **LHC** will start operating within a year,
and upgrades are under study
- **Neutrino** Physics is going on after recent breakthroughs
and choices for its future are heavily under study
- **B Physics** has encountered big success
and decisions are expected soon
- **Electron-Positron** Collider ILC passed first steps, it is
the future of frontier high energy particle physics
- In all these future decisions, **accelerator** and **detector**
R&D is the basis for proposals, designs and final choices

The FJPPL is taking a solid share in this worldwide endeavour.

Particle Physics

is as exciting as ever,

it is attractive to the best

(young, outsiders, stubborn... and others)

it has a bright future

Many Thanks to our Japanese hosts

ありがとう

11 May 2007

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