

Scientific council of IPHC

June 26th 2023

Projects based on
Monolithic Active Pixel Sensors
in CMOS technology



SC members and experts

Internal members

Alain Van Dorsselaer

Eric Chabert

Olivier Dorvaux

Aline Nonat

External members

CARBONELL Jaume

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KAPEL Romain

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LE BIZEC Bruno

Oniris de Nantes

LETANG Jean-Michel

Laboratoire CREATIS Lyon

MUSA Luciano

CERN

OCARIZ José

LPNHE

SERIN Laurent

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Invited experts

BEVAN Adrian

Queen Mary University of London

CONTARDO Didier

IP2I

DANHEIM Dominik

CERN

KAJFASZ Eric

CPPM

LEVEQUE Jessica

LAPP

VASEY François

CERN

Lists restricted to attendees

Projects

Recherches Subatomiques
Responsable : J. Andrea
Administration : M. Puerto
Eq. scientifiques Eq techniques

Théorie **K. Sieja**

Du big bang aux particules

ALICE **A. Maire**

Belle 2 **I. Ripp- Baudot**

CMS **A-C. Le Bihan**

Neutrino **M. Dracos**

OGMA **T. Pradier**

PICSEL **A. Besson**

Du noyau aux étoiles
O. Dorvaux

Energie, environnement
et dosimétrie
Données Nucl. pour les
Réacteurs **M. Kerveno**
Radiochimie **Q. Raffy**
DeSIs **N. Arbor**

Systèmes de
Mesure et
d'Acquisition
C. Bonnin

plateforme C4PI

Coord.Scientifique
J. Baudot

Resp.Opérationnel
C. Hu-Guo
Plateforme
labellisée IN2P3

Instrumentation des
Accélérateurs
E. Bouquerel

RaMsEs
A. Sellam



- ALICE upgrade:
ITS3 (Internal Tracking System)
- Belle 2 upgrade:
VTX (Full pixelated vertex detector)
- Vertex & inner tracker detectors for future e⁺e⁻ colliders

List of questions

1. Evaluate the **scientific and technical relevance** of each of the proposed instrumental projects in the context of national and international collaborations, as well as in the framework of the In2p3 prospective and the European strategy for particle physics
2. Evaluate the **degree of feasibility of each project** with regard to current know-how, existing means and available resources, in particular human resources.
3. Evaluate the impact of these instrumental projects in maintaining and **developing relevant technical skills** for the future.
4. Assess the possible **synergies** and **complementarities** between the different projects
5. Evaluate whether the commitment to this set of instrumental projects will leave **sufficient room and flexibility for staff training, technological monitoring and the possibility of seizing future opportunities.**

Agenda

08:30 → 08:45 **Introduction**

Welcome and presentation of the questions asked to the CS

🕒 15m 

08:45 → 09:25 **Presentation of the C4PI platform**

Orateur: Jerome Baudot (IPHC)

🕒 40m 

09:25 → 10:05 **Presentation of the ALICE ITS3 project**

Orateur: Antonin Maire (IPHC Strasbourg - CNRS)

 ITS3-Conf-2023-06-...

🕒 40m 


10:05 → 10:20

Coffee break

🕒 15m

10:20 → 11:00 **Presentation of the Belle-2 upgrade project**


Orateur: Isabelle Ripp-Baudot (IPHC, CNRS/IN2P3)

 CS-IPHC_27June20...

🕒 40m 

11:00 → 11:40 **Presentation of the Future-Collider Project**

Orateur: auguste besson (Institut Pluridisciplinaire Hubert Curien)

 epemcolliders_Scie...

🕒 40m 

11:40 → 12:30 **General discussion**

Orateurs: Antonin Maire (IPHC Strasbourg - CNRS), Isabelle Ripp-Baudot (IPHC, CNRS/IN2P3), Jerome Baudot (IPHC), auguste besson (Institut Pluridisciplinaire Hubert Curien)

🕒 50m 