



French Alternative **Energies and Atomic Energy Commission**



www.cea.fr



The Institute of Research into the Fundamental lows of the Universe (IRFU)

Directorate meeting on May 20



IRFU RECENT INTERNAL EVOLUTIONS



Head of Institute

Assistant: Josiane Parnas

Deputies: Nicolas Alamanos Marie-Cécile Aubert

Larsim

Research on sciences matter lab **Etienne Klein**

Assistants

QSE* **Project** Communication **Budget Europe Programs Industrial Parterships Human Ressources**

Erick Blanchard Emmanuelle Bougamont Sophie Kerhoas-Cavata Nathalie Judas Sylvie Leray **Christine Porcheray Christine Tiquet**

Delegates

Computing & Simulation Evaluation Safety **Computing ressources PhD Students**

Allan-Sacha Brun Pascal Debu Erick Blanchard Shebli Anvar Jérôme Rodriguez



SAp

Astrophysics and Space Technologies **Anne Decourchelle** Dep. Head: Pascale Delbourgo

SACM

Accelerators, Cryogenics and Magnetism Pierre Védrine Dep. Head: Ph. Brédy / O. Napoly



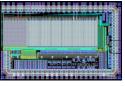


SPhN

Nuclear Physics Héloïse Goutte Dep.Head: Jacques Ball

Sedi

Detectors, Electronics and Computing **Eric Delagnes** Dep. Head: Philippe Bourgeois





SPP

Particle Physics **Gautier Hamel De Monchenault** Dep. Head: Georges Vasseur

SIS

Mechanical Design and System Engineering **Christian Veyssière** Dep. Head: Frédéric Molinié









French Alternative **Energies and Atomic Energy Commission**



www.cea.fr



- The Institute inside the CEA
- How the strategy is elaborated
- The Scientific Roadmap including Accelerators, magnets and instrumentation roadmaps
- The French financial system
- Decree (No 2016-311 of 17 March 2016 on the organization and functioning of the CEA

05/2016



THE IRFU STRATEGY



Irfu strategy is elaborated in

- Division level :
 - Strategy reviewed by division scientific council (CSTS)
 - Topical meetings and discussions between physics and technological
 - divisions
- Institute level:
 - Annual seminar management: review of Irfu strategy in terms of scientific and technical orientations, but also in terms of personal/investment and resources.
 - "Contrat d'objectifs": institute strategy & resources reviewed by DRF management
 - International Scientific Council recommendations
- Irfu members are actors: of national and international panel reviews
 - CNES, GANIL, ESA, CERN (European strategy), NUPPEC, APPEC,...

The CSI met in 12-13 May 2016:

The Committee Members are:

- Norbert Holtkamp: SLAC, Director of the Accelerator Directorate, former principal deputy director general of ITER.
- Xavier Barcons: ESO, President of the European Southern Observatory council, former president of the SSAC of ESA, Prof. at the Spanish Council for Scientific Research.
- Peter Jenni: Albert-Ludwigs-University Freiburg and CERN, Former ATLAS
 Spokesperson
- Angela Bracco: INFN, Chair of NuPECC, Chair of the Nuclear Physics Board of INFN, Professor of Physics at the University of Milano.
- Ariella Cattai: CERN, Senior Physicist, ATLAS experiment
- Nathalie Roe: BERKELEY, Director of the Berkeley Physics Division.
- Niel Gehrels: NASA, Chief, Astroparticle Physics Laboratory, NASA/GSFC,
 College Park Professor of Astronomy, U. Maryland and Adjunct Professor of Astronomy & Astrophysics, Penn State University.
- Hideto En'yo: RIKEN, Director of the RIKEN Nishina Center for Accelerator-Based Science.
- **Graham Smith :** BROOKHAVEN, Head of the Instrumentation Division at Brookhaven Lab.
- Leonid Rivkin: PSI, Member of the « board of Directors » of Paul Scherrer Institute,
 Head of the PSI department of large research facilities, Professor of accelerator physics at
 EPFL



IRFU- Scientific Council - May 2016



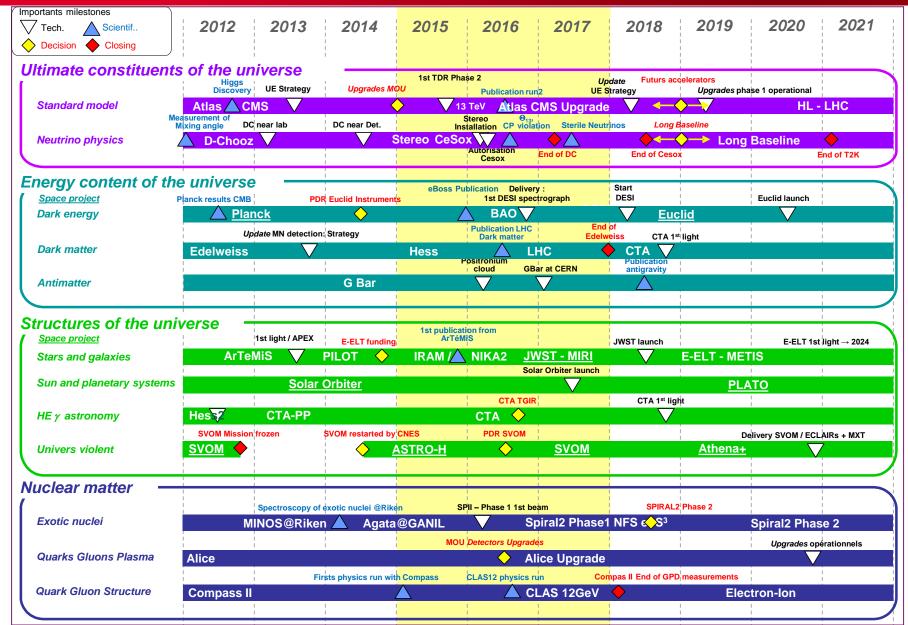
Following my notes

- The panel took note with satisfaction of the great progress of the LHC Phase-1 and Phase-2 upgrade activities for ATLAS and CMS. The immediate task for a timely construction of the ATLAS New Small Wheel micromegas chambers is particularly challenging in all aspects. The panel was impressed with the final R&D and the large clean room preparations.
- The SPP (with SPhN) is significantly involved in a broad range of neutrino physics activities, with important results and exciting prospects. SPP has broad technical expertise that should position it well to contribute to future long baseline neutrino experiment....



SCIENTIFIC ROADMAP

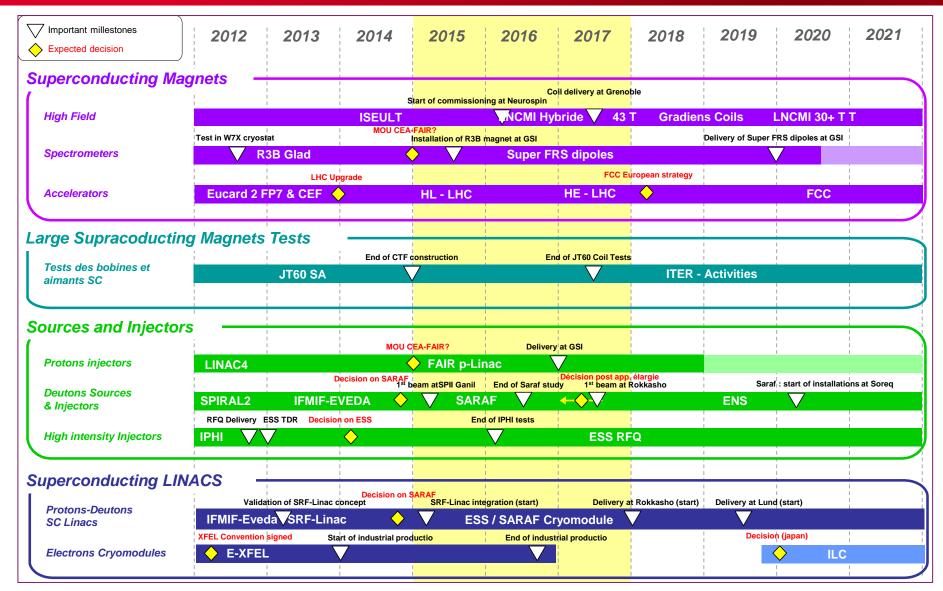






ACCELERATORS AND CRYOTECHNOLOGY ROADMAP



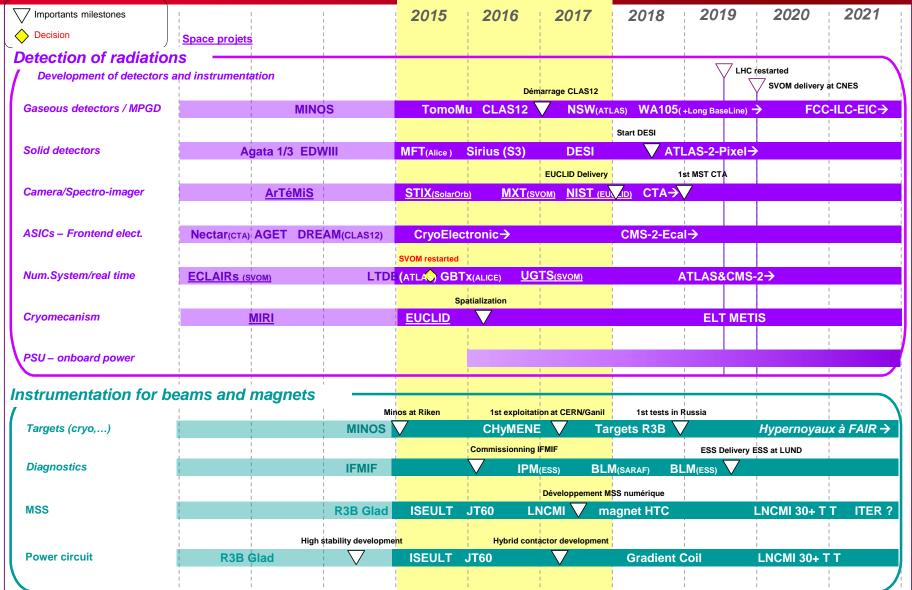


Nicolas alamanos



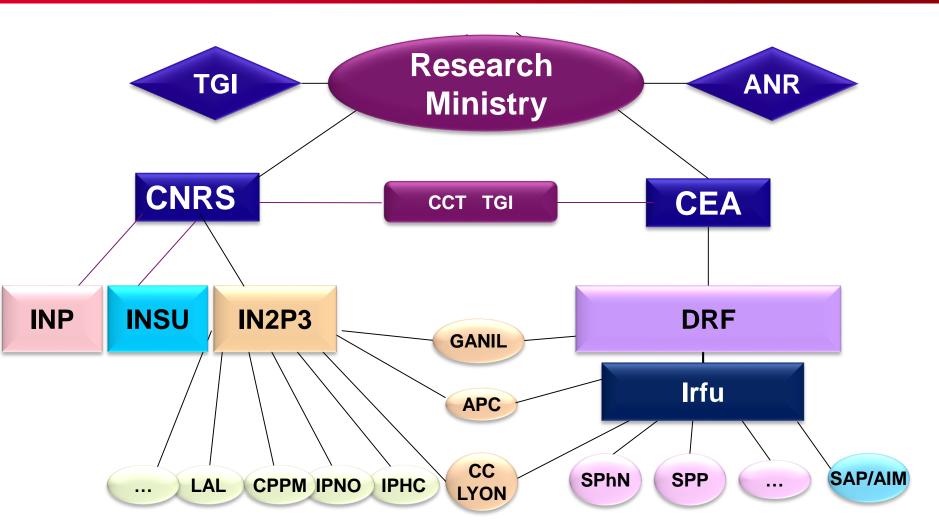
INSTRUMENTATION ROADMAP









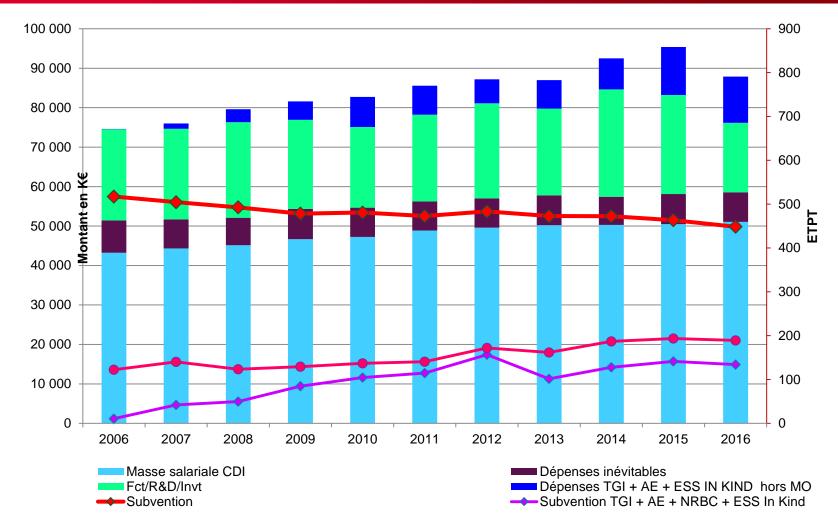


IDEX - LABEX



RESSOURCES GLOBAL EVOLUTION 2006-2016









Decree No 2016-311 of 17 March 2016 on the organization and functioning of the French Alternative Energies and Atomic Energy Commission

- 5) Develop the fundamental research, applied and technological research in the fields of his activity.
- 6) Contribute to the scientific waking and implementation of the national strategy of research.
- 7) Contribute to the national effort of teaching and education and develop the dissemination of scientific and technological information.





