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IN2P3 PROJECT MANAGER (*CHARGÉE DE MISSION*) FOR ACCELERATORS FOR SOCIETY, SINCE 2022

- structuring of the IN2P3 accelerator R&D community
- representation of the IN2P3 accelerator R&D community at the national and international level
- scientific expertise and financing programs

RESEARCH ENGINEER, LABORATORY OF SUBATOMIC PHYSICS AND COSMOLOGY, GRENOBLE, SINCE 2004

MANAGEMENT

- **Head of the accelerator and ion source division of LPSC (20 people), 2016-2022**
- **Head of accelerator group, LPSC (10 people), 2006-2016**

SCIENTIFIC CONTRIBUTIONS

- **Contribution to the MYRRHA project (2012-2022)**

The MYRRHA project, led by the nuclear center SCK-CEN (Belgium), is a demonstrator of an accelerator driven system (ADS) devoted to nuclear waste management, based on multi-MW proton linac driving a 50-100 MW_{th} nuclear reactor core

- **Technical and operation manager of the GENEPI-3C accelerator for GUINEVERE (2007-2017)**

A low power ADS, GUINEVERE, is under operation in SCK-CEN driven by a deuteron accelerator machine, GENEPI-3C. The machine was designed and constructed at LPSC (2007-2009) before its transfer to SCK-CEN and is under operation since 2011.

- **Operation manager of the accelerator-based neutron source, GENEPI2 at LPSC (2006-2018)**

GENEPI2 is an electrostatic deuteron accelerator based at LPSC producing neutrons for applications in physics & irradiations

- **Study of polarized electron sources : SuperB and PEPPo experiment at JLab (2009-2012)**
- **Responsible for in-kind contribution for CERN: PS pole face windings, LINAC4 amplifiers (2009-2013)**
- **Beam dynamics (2004-2006) :** Error study of the LINAC4 injector, study of the capture phase for the CNAO synchrotron
- **Magnetic measurements of the CNAO dipoles (2004-2006) :** study of systematics effects and participation to experimental campaign of field integral measurements and dipole shimming at CERN

STAFF SCIENTIST, INJECTOR GROUP, THOMAS JEFFERSON NAT. ACCELERATOR FACILITY-USA, 2001-2004

- **R&D on polarized photocathodes** leading to ~85% beam polarization for the first time on CEBAF
- **Responsible for the injector test lab** (2 photoguns and associated beam lines)
- **Support and maintenance of the polarized sources and injector of the CEBAF accelerator**

PHD IN PHYSICS (THÈSE DE DOCTORAT), U. CLAUDE BERNARD, LYON I-CEA SACLAY (FR), 2000

- **Measurement of the polarization of the electron beam using Compton effect for the elastic scattering HAPPEX experiment at Jefferson Laboratory**
 - Participation to calorimeter tests, installation, commissioning and operation of the polarimeter
 - Development of an analysis method leading to the first non-invasive polarization measurement of the CEBAF beam with ~3.3% total average accuracy