



Thank you to CNAO & to all participants!

Moving organs

Accelerator studies

2.

3.

4.

5.

6.

IN2P3 / CNRS - CNAO: our ambition

Topics

Beam monitoring & treatment control

Instrumentation & modelling for BNCT

Radiolysis & benchmarking of codes (MC & bio)

Radiobiology (C, BNCT)

- Hadrontherapy: a scientific priority identified during the IN2P3 2020-2030 foresight exercice
- Signature of a CNAO CNRS Collaboration agreement on June 2022 for 5 years
 - Priority to Carbon beams at clinical energies & BNCT
 - Define official framework to shape science projects (see topics) between the two organizations
 - On CNRS side, any CNRS institute (10) can participate to research projects
 - Coordination Committee: Marco Pullia & Angelica Facoetti (CNAO); Marie Vanstalle & Denis Dauvergne (CNRS)
 - The agreement was supplemented by an amendment for a contribution to beam costs, signed on July 2023
 - Shared price: 400 euros/hour (CNRS teams) & 400 euros/hour (CNAO teams)
- First two specific agreements established (objectives / tasks / timetable / teams 3 years)
 - « BIOHADRON »: Claire Rodriguez-Lafrasse (IP2I), Angelica Facoetti, et al. + IPHC + Subatech + LPC + ISTCT + IAB + US2B signed on September 2023
 - « PEPITES@CNAO » Marc Verderi (LLR), M. Pullia, et al. will be signed soon
- A regular scientific animation organized by the Coordination Committee
 - Annual workshop: 1) annual report on on-going projects, 2) brainstorming towards new projects,
 3) other actions: opportunities for research support, calls, conferences, tutorials, Special Issues in journals, etc.
 - · CNRS side : reporting to GDR « MI2B » annual general assembly
- Support to CNAO-CNRS research projects
 - IN2P3 in 2023 : PhD for « BIOHADRON », Post-doc for « PEPITES » @ CNAO two new Master Projects will be created
 - CNRS in 2023: CNRS-IRSN for « BIOHADRON » (budget + Post-doc), MITI (IN2P3/LLR & INP/LOA) for « PEPITES@CNAO »
 - IN2P3 teams are encouraged to pay beam time from their own resources; situation might be different for team from other CNRS institutes (e.g. IN2SI)
 - Highly encouraging CNAO + 2 CNRS teams (from different institutes, at least) to define new projects 3 top-down tools: « PRIME », « PIB », « 80PRIME »

Target of the day: identify a few new collaborative CNAO-CNRS projects involving (ideally) at least 2 CNRS institutes