Data Analysis & Reprocessing status

Jérémie Dudouet

on behalf of the **AGATA Data processing working group**

Institut de Physique des deux infinis de Lyon **(IP2I)**

AGATA Week 2025, GSI

Team goals

- Support on data processing:
  - Organization of workshops dedicated to data analysis
    → The last one at Lyon in January 2025

Team goals

- Support
  - ➥ Org
  - → T

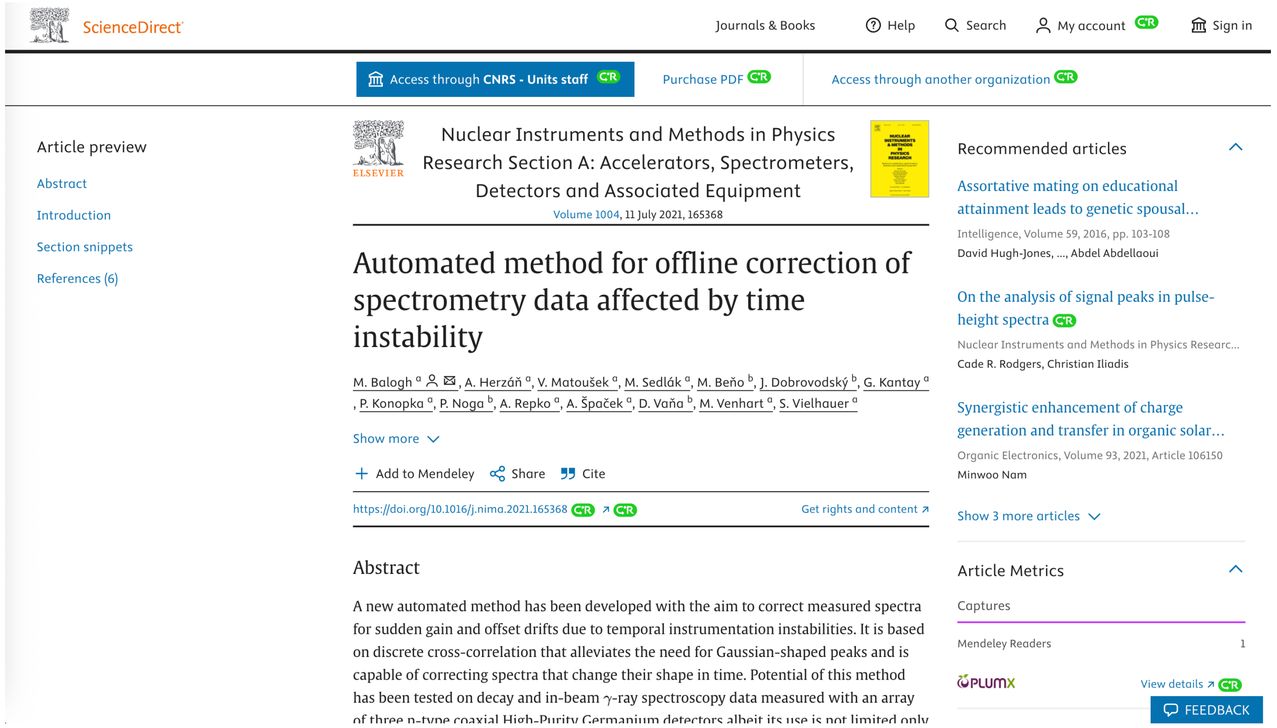
Team goals

- Support on data processing:
  - Organization of workshops dedicated to data analysis
    - → The last one at Lyon in January 2025
    - → When should we organise the next one ? September 2026 ?
  - Software update and support
  - Providing documentation

- Support on data transfer management:
  - script and documentation to simplify data transfer from the grid

Software in AGAPRO

- Energy drift correction procedure:
  - Work of Matus Balogh, that will be presented on Friday



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Article preview

Abstract
Introduction
Section snippets
References (6)

Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment

Volume 1004, 11 July 2021, 165368

Automated method for offline correction of spectrometry data affected by time instability

M. Balogh [a], A. Herzáň [a], V. Matoušek [a], M. Sedlák [a], M. Beňo [b], J. Dobrovodský [b], G. Kantay [a], P. Konopka [a], P. Noga [b], A. Repko [a], A. Špaček [a], D. Vaňa [b], M. Venhart [a], S. Vielhauer [a]

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Abstract

A new automated method has been developed with the aim to correct measured spectra for sudden gain and offset drifts due to temporal instrumentation instabilities. It is based on discrete cross-correlation that alleviates the need for Gaussian-shaped peaks and is capable of correcting spectra that change their shape in time. Potential of this method has been tested on decay and in-beam γ-ray spectroscopy data measured with an array of three p-type coaxial High-Purity Germanium detectors albeit its use is not limited only

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Minwoo Nam

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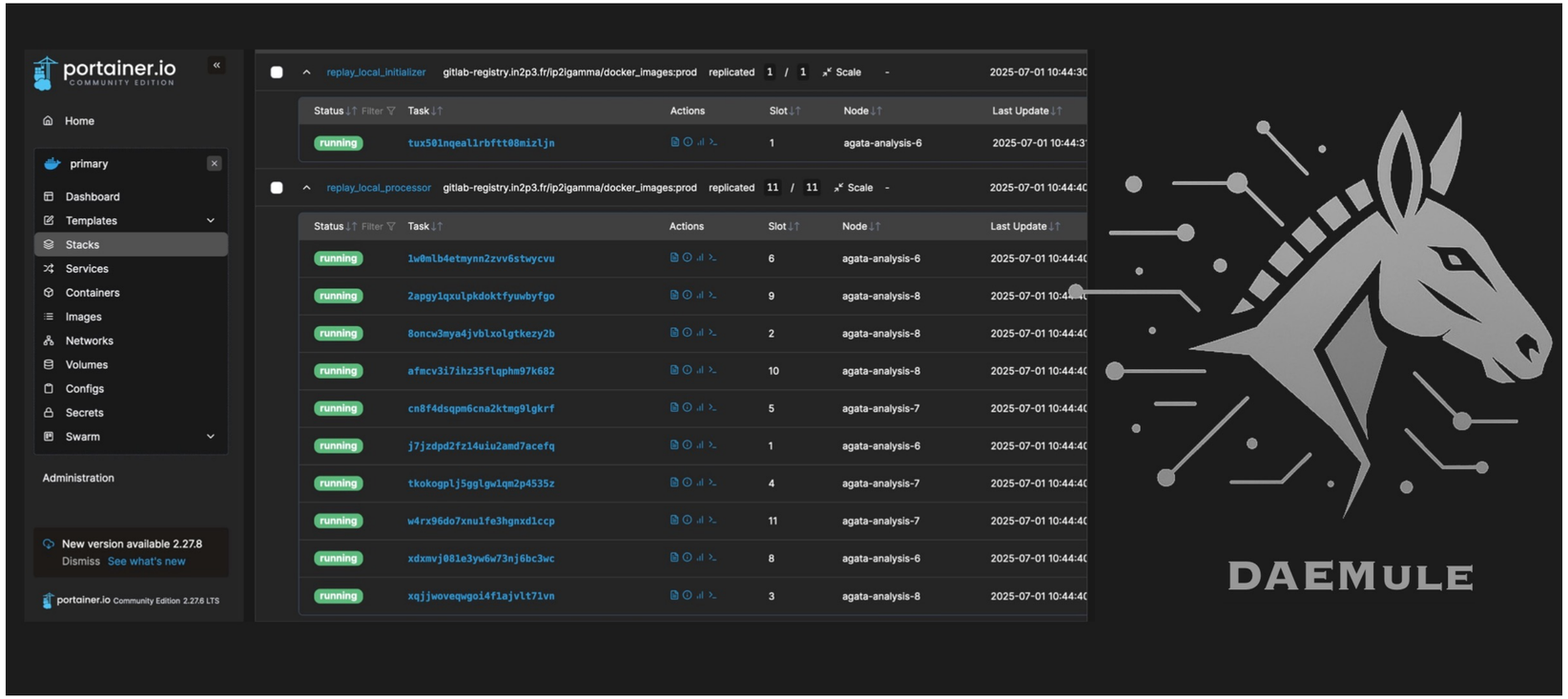
FEEDBACK

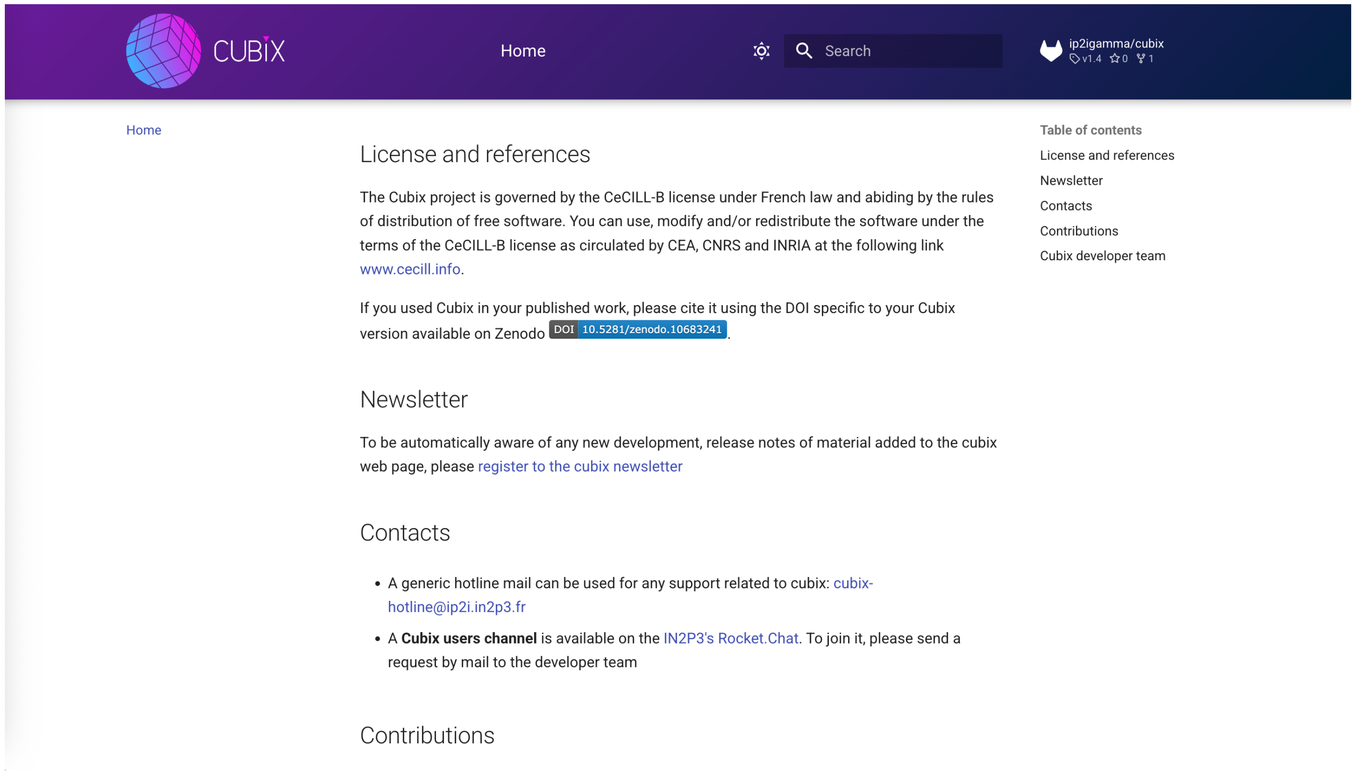
Software in AGAPRO

- Energy drift correction procedure:
  - ➥ Work of Matus Balogh, that will be presented on Friday
- New replay emulator (DAEMule) working on cluster:
  - ➥ Tested on site: factor 10 in processing time (talk of G. Baulieu)



Other software

- Cubix:
  - Last release: v1.4 (06/2025)
  - Several new tools and optimisation: check the release notes
  - Full documentation and release notes on https://cubix.in2p3.fr



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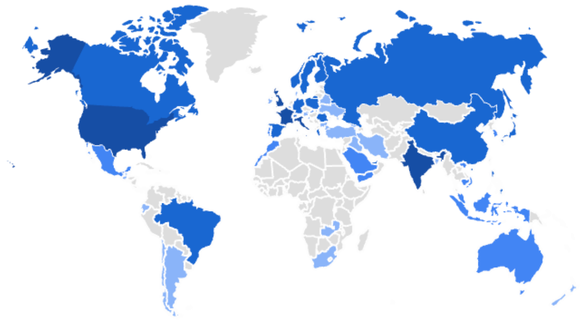
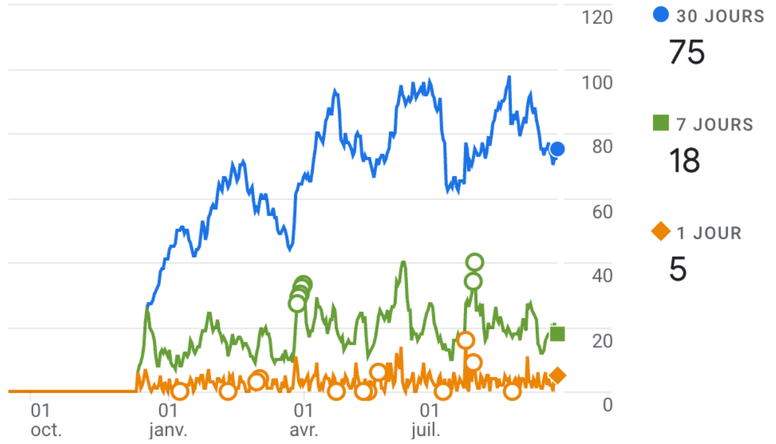
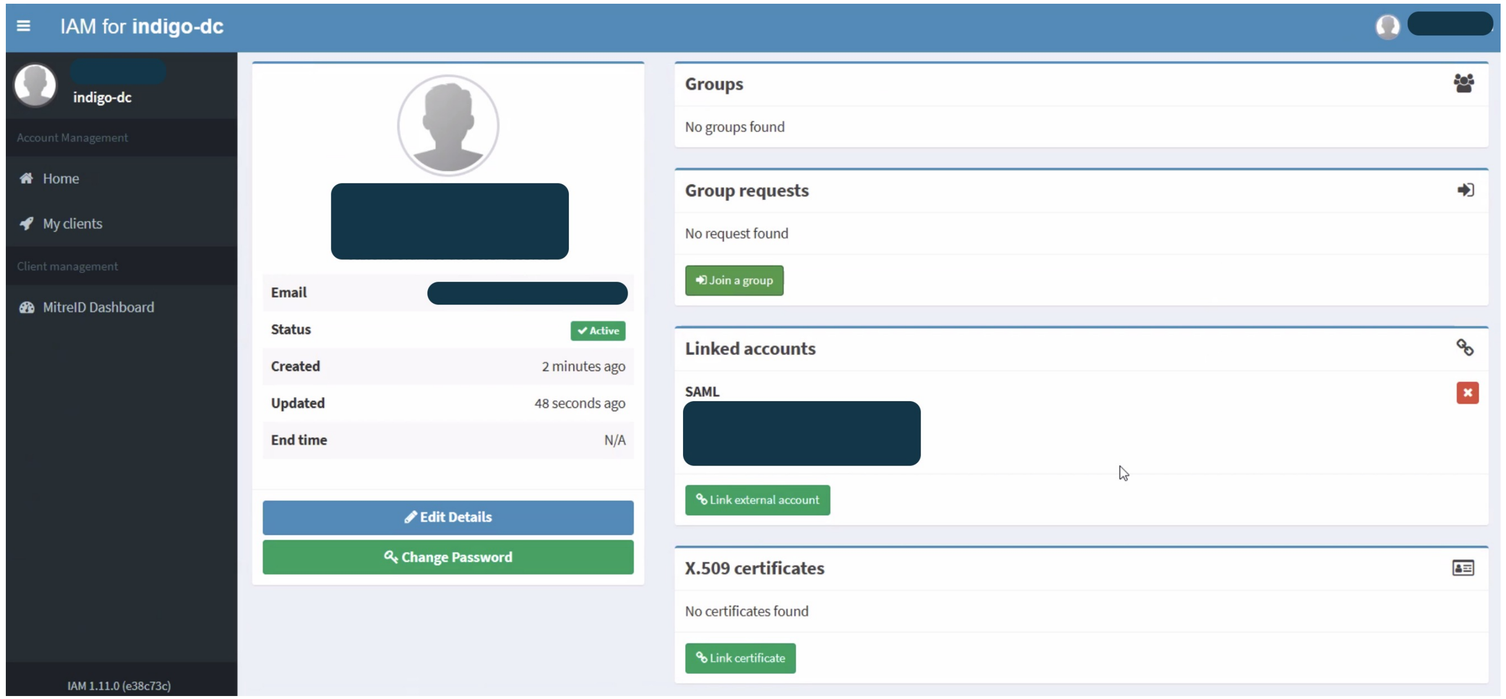


PAYS	UTILISATEUR…
France	99
United States	96
Italy	65
India	54
United Kingdom	29
Spain	25
Germany	24



Grid access

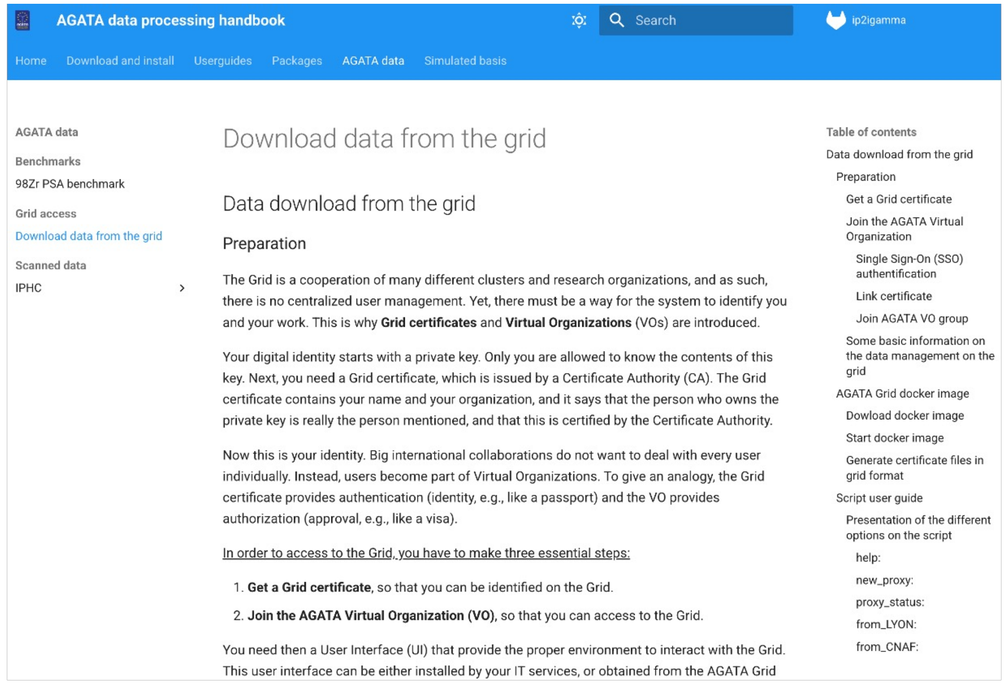
- **Migration to indigo IAM**:
  - VOMS no more maintained at CC

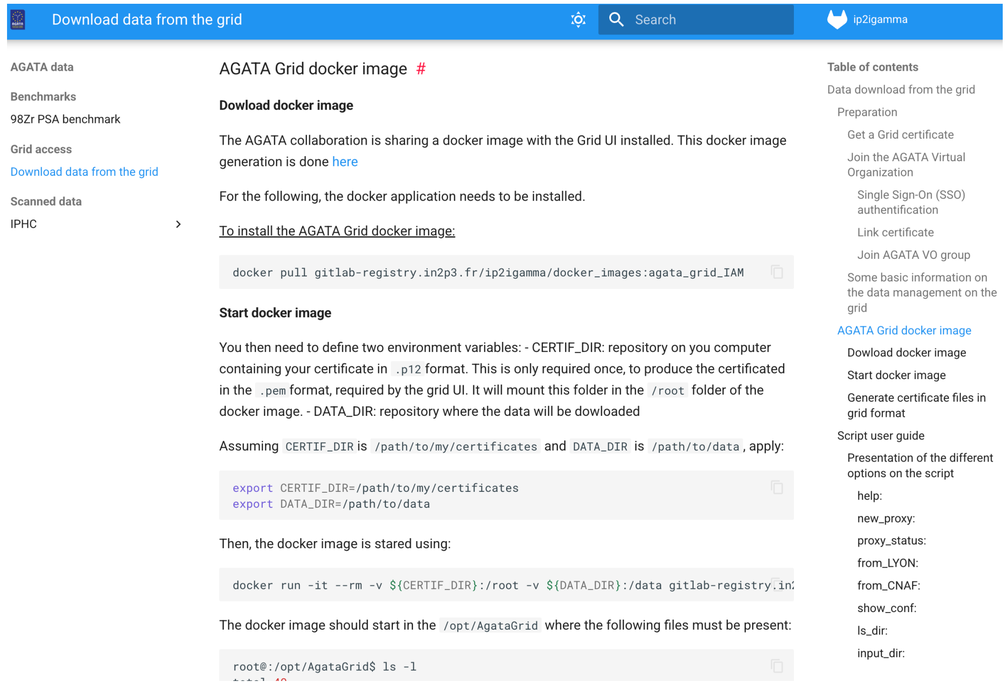


Grid access

- **Migration to indigo IAM**:
  - ➥ VOMS no more maintained at CC
- **Documentation for GRID data access updated on the AGATA handbook web page**
- **Docker image updated**

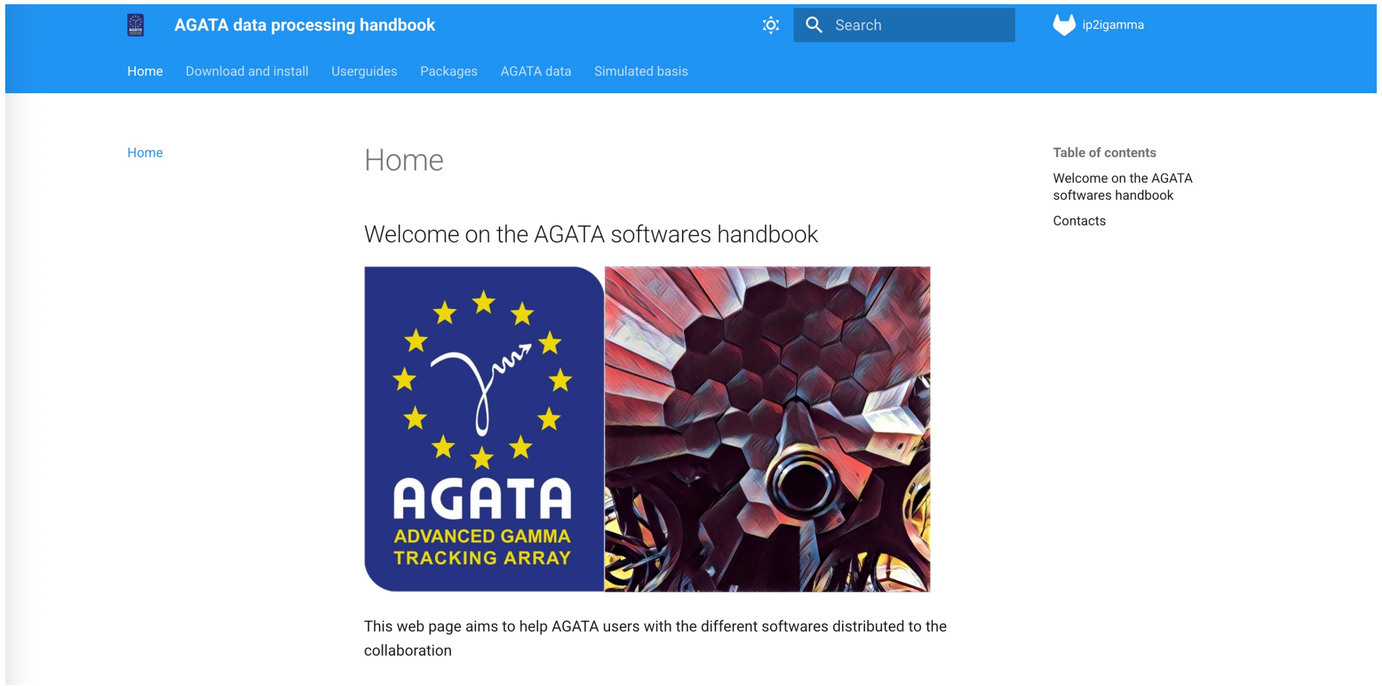
https://agata.pages.in2p3.fr/handbook/data/grid/grid/





Documentation

- AGATA user guide web site: https://agata.pages.in2p3.fr/handbook



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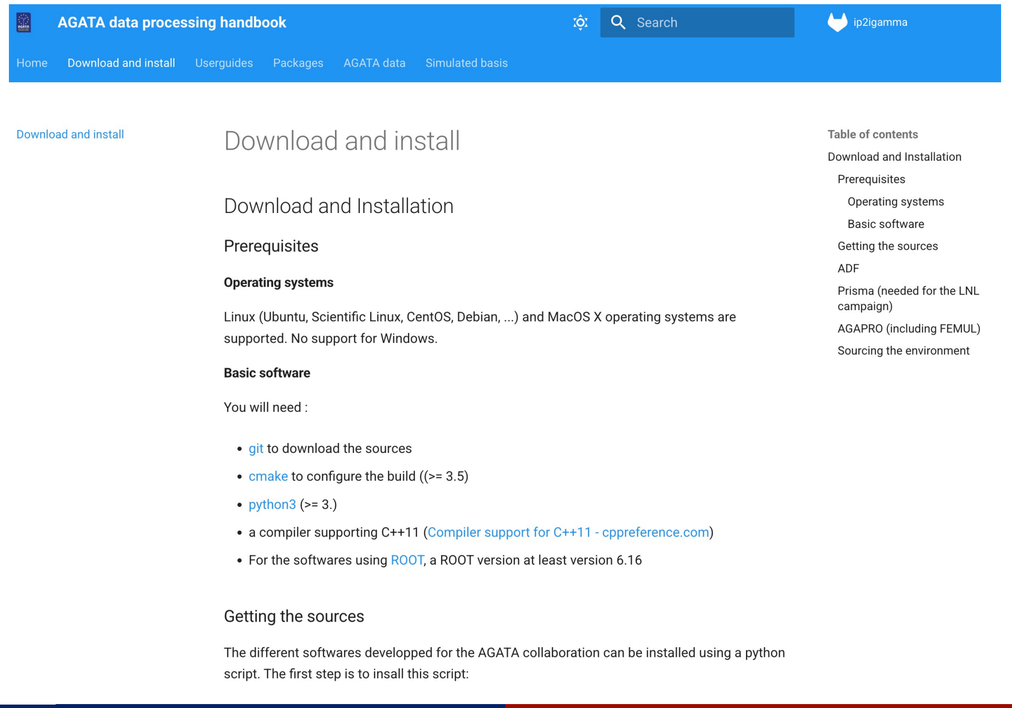
  - ➥ software installations



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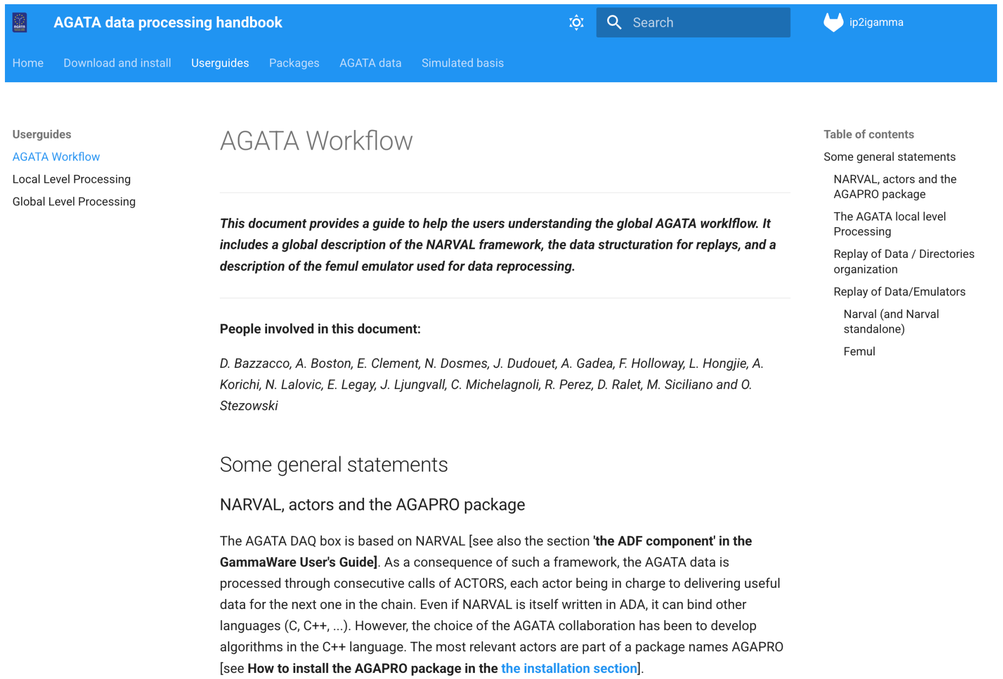

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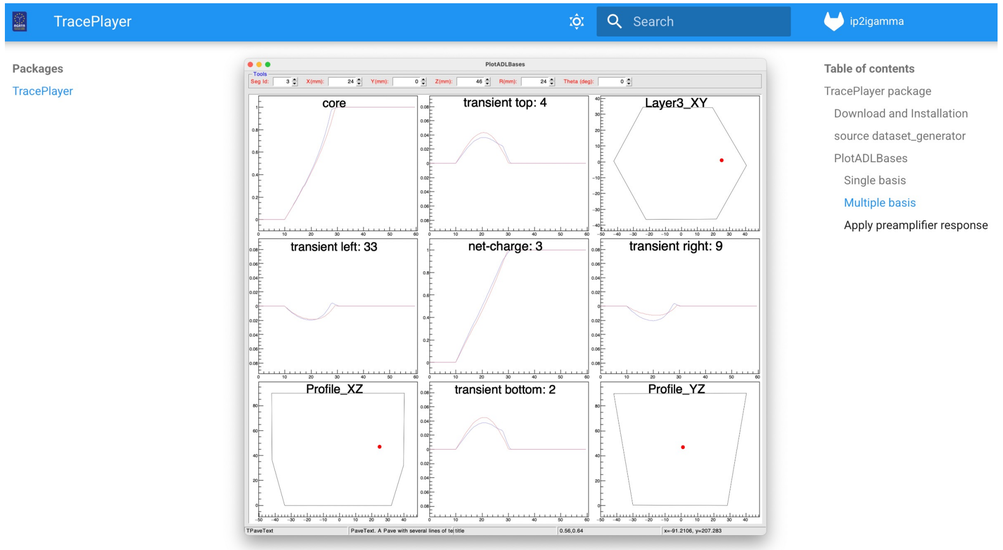
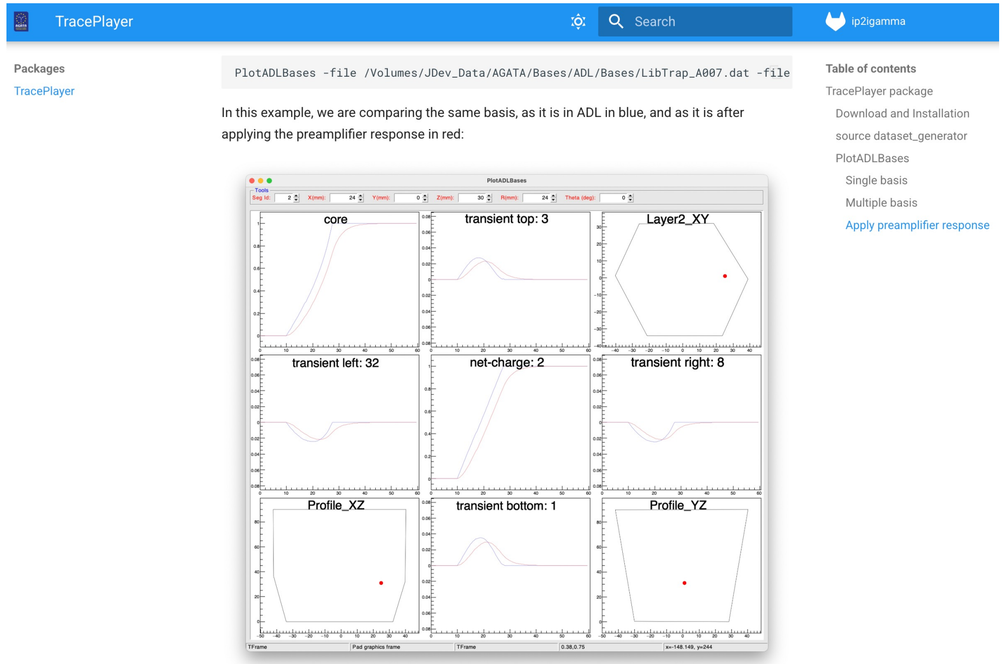
  - software installations
  - AGAPRO user guide
  - access to AGATA-linked packages (TracePlayer: plot ADL format bases)



Apply preamplifier response

This is possible to ask the code to apply the preamplifier response on the traces as it is done in the AGATA PSA actor. For this use the `-preamp` option after the basis file:



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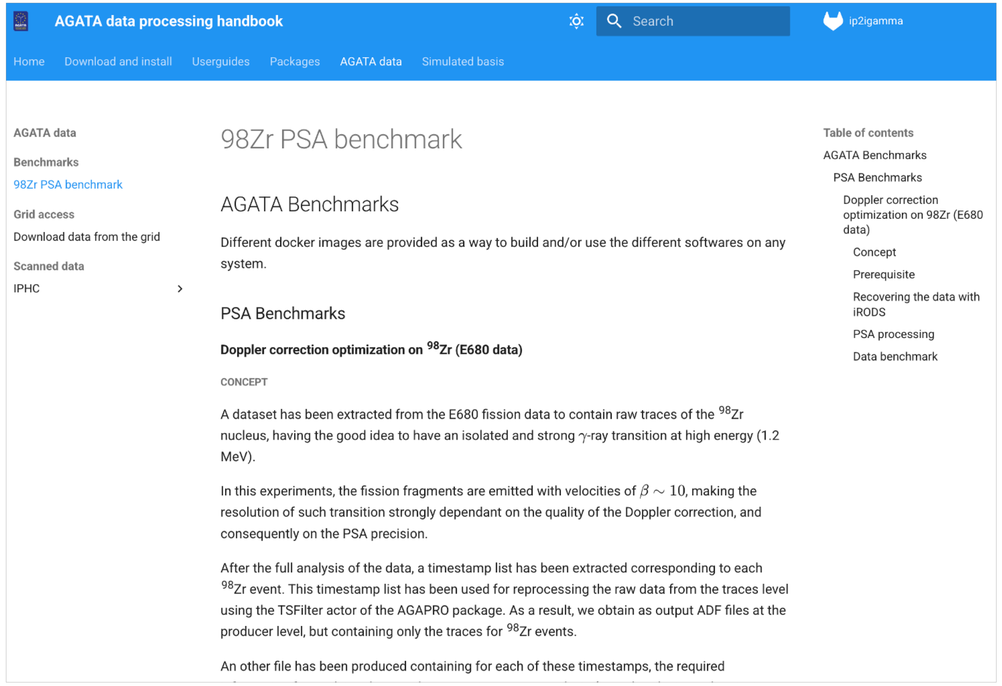

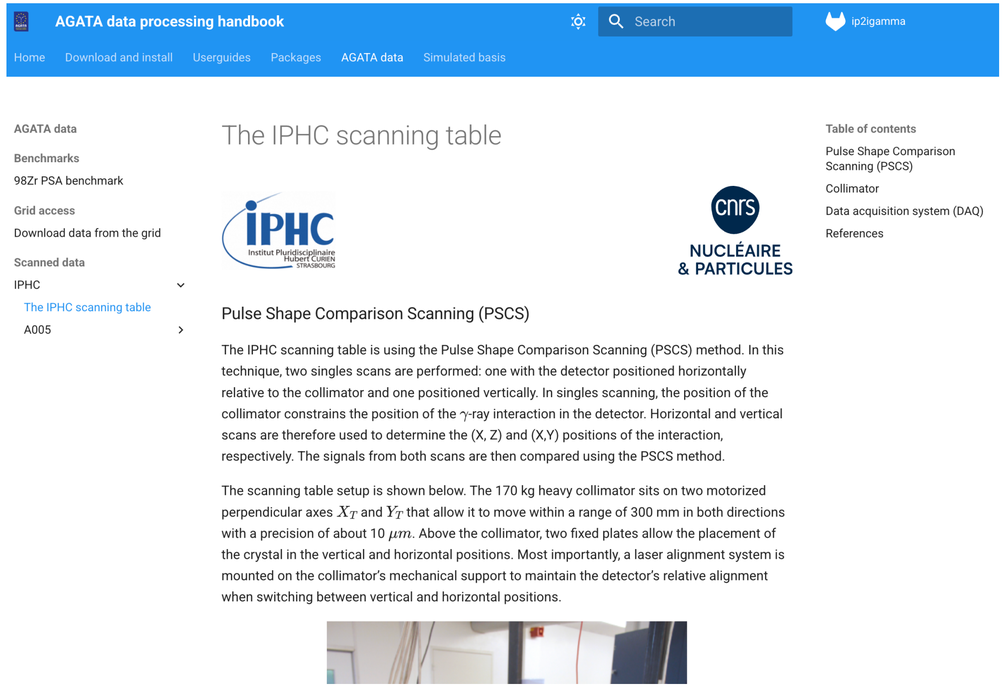

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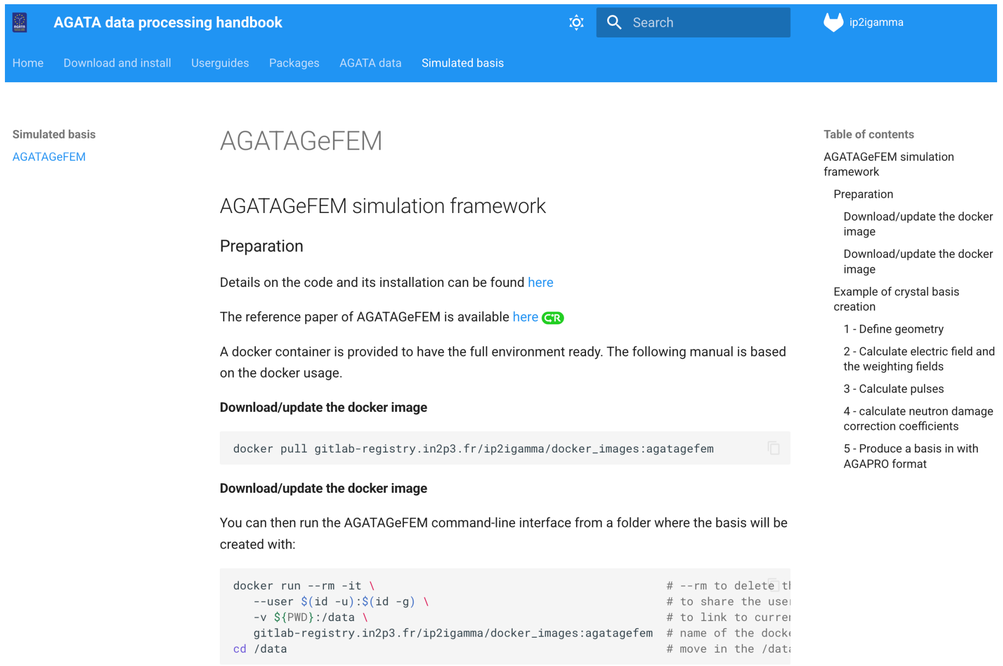
  - simulated basis manual (AGATAGeFEM)



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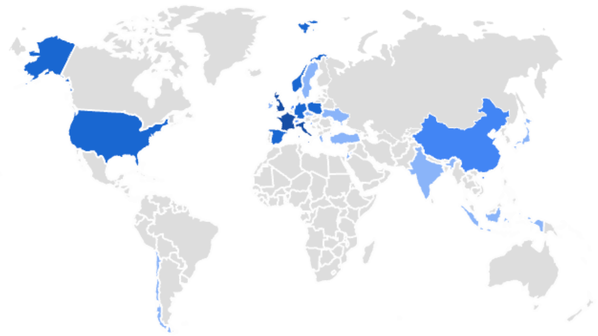

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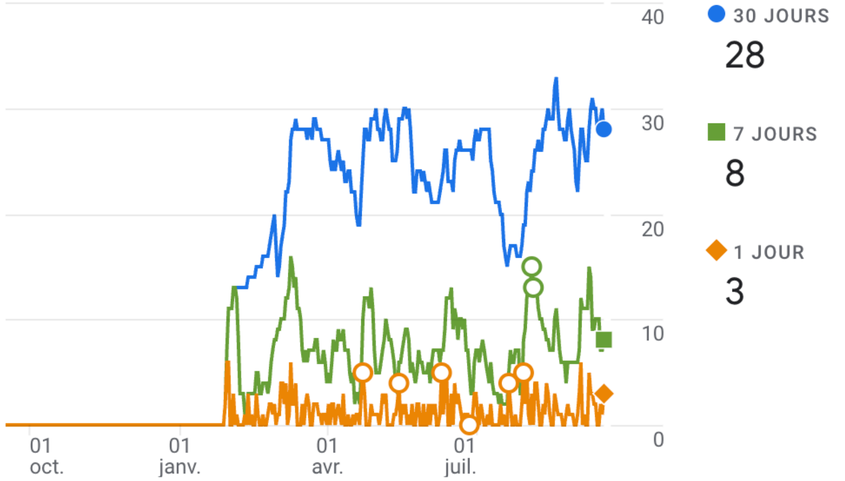
Spain	8
Poland	7

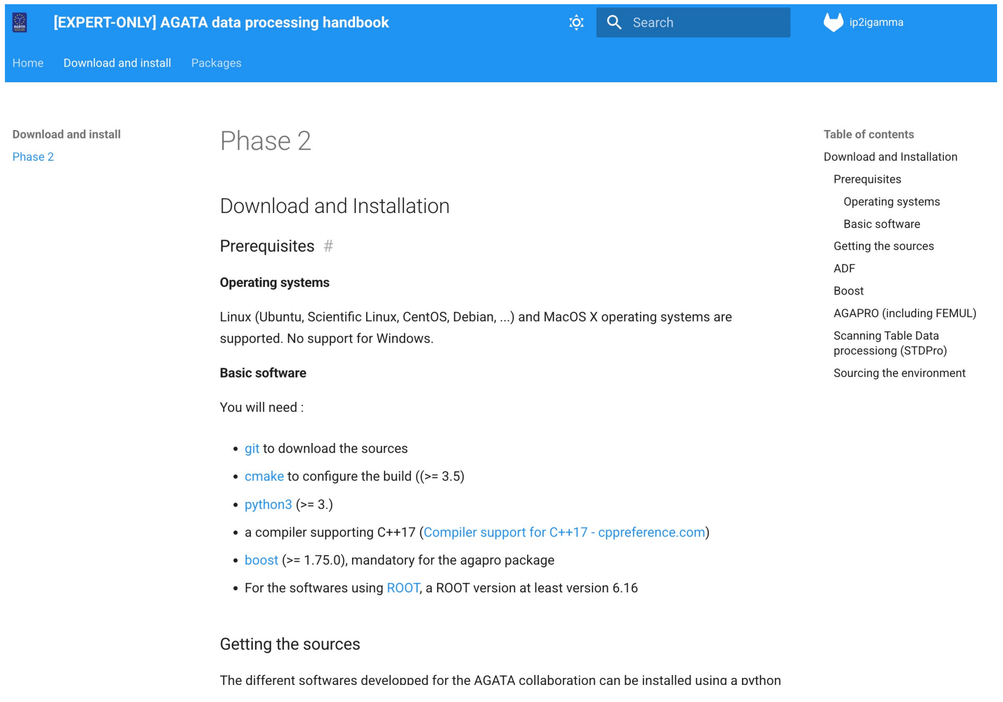


Documentation for experts

➤ New AGATA **experts** user guide web site: https://agata.pages.in2p3.fr/handbook/expert-only/

→ Designed to prevent unrestricted access during experiments to web pages containing commands reserved for experts.

➥ Installation of the “Phase 2” version of AGATA Software (still under development)



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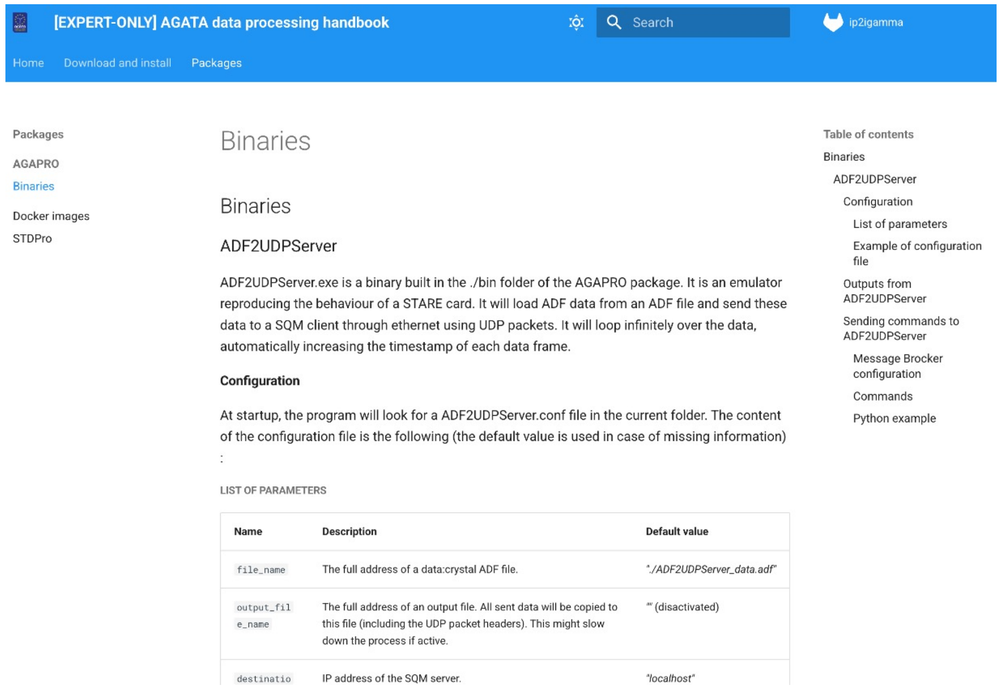
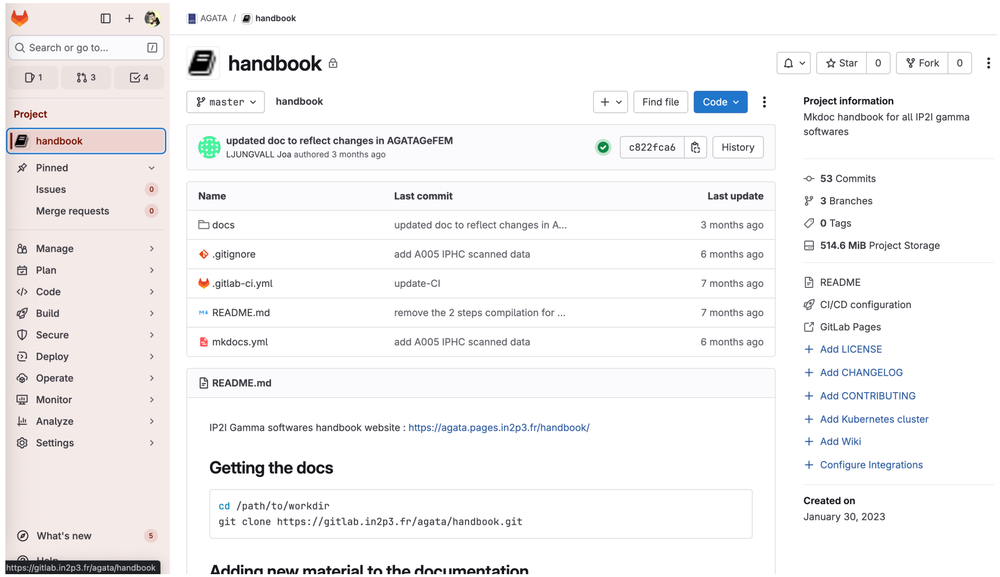
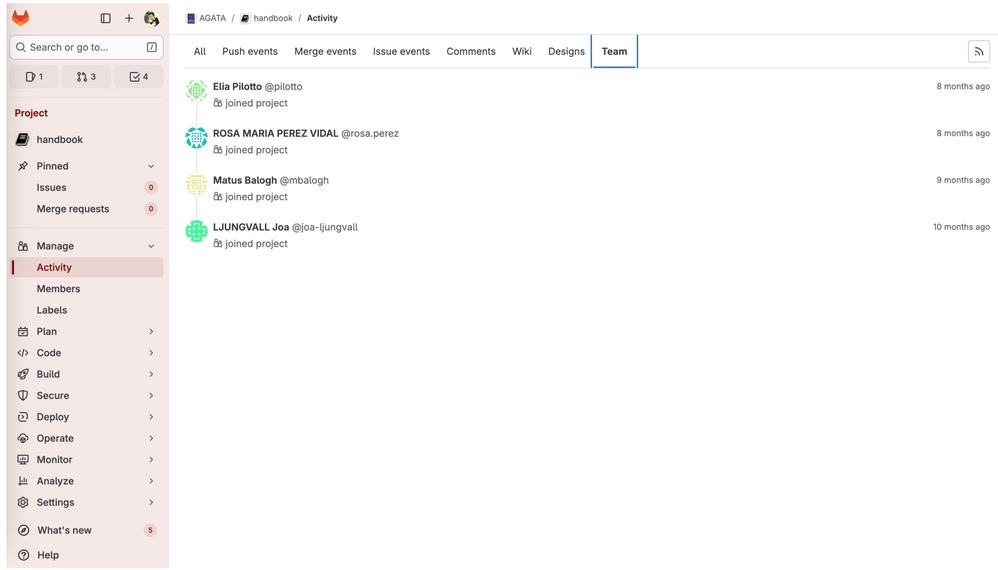
➥ Packages dedicated to expert use



Documentation needs

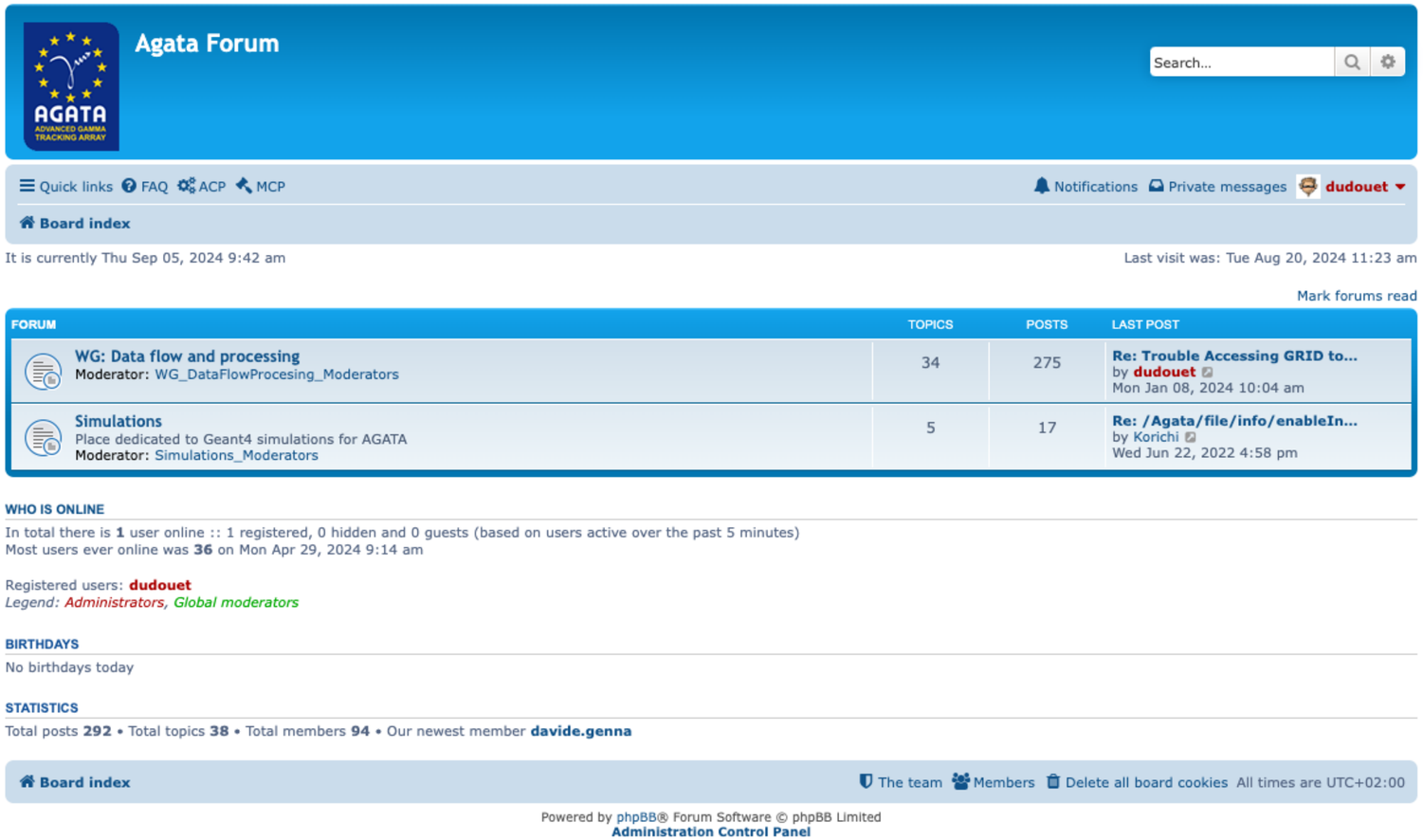
- **Updating the documentation is really easy**
  → **markdown** format and automatically generated par **GitLab**
- **Contributors are welcome** to add material (packages, scanned data, documentation…)
- It would be great to have someone from the host lab to maintain the needs in documentation
  → (standard / expert modes)





Documentation

The AGATA forum no more available (and no more used since the LNL campaign)
It will no more be maintained



Merci !