



# Data Analysis & Reprocessing status

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

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**AGATA week 2023, Legnaro**

## Team goals

- Support on data transfer management:
  - ↳ script and documentation to simplify data transfer from the grid
  
- Support on data processing:
  - ↳ Organization of workshops dedicated to data analysis
    - The last one at LNL in September 2023
    - Next one in discussion (probably Lyon in early 2024)
  - ↳ Software update and support
  - ↳ Providing documentation

## Software in AGAPRO

- LNL ancillaries in AGAPRO:
  - ➔ Developed by the local team and gradually integrated into the main branch
  - ➔ Since last AGATA week: adding Oscar and Sauron in TreeBuilder
  
- Post PSA treatments (see Elia's talk Thursday morning):
  - ➔ new upgrades on the neutron damage correction
  - ➔ new developments for correcting gain drifts at high energies.  
Programs and manual available online: <https://github.com/matLogh/CCM>

## Software for scanning

- New *Scanning Table Data Processing* (STDPro) package for data from scanning tables:
  - ➔ include only TNT2 to ADF producer for the moment
  - ➔ collaborative work can be done to be adapted to other scanning tables
- New actor:
  - ➔ *IKP2AGATAConverter* for playing with segment numbering conventions

## Other software

➤ AGASPY:

- ➔ T0 global spectra added to the spy
- ➔ don't hesitate to request other data that could be useful online

➤ Cubix:

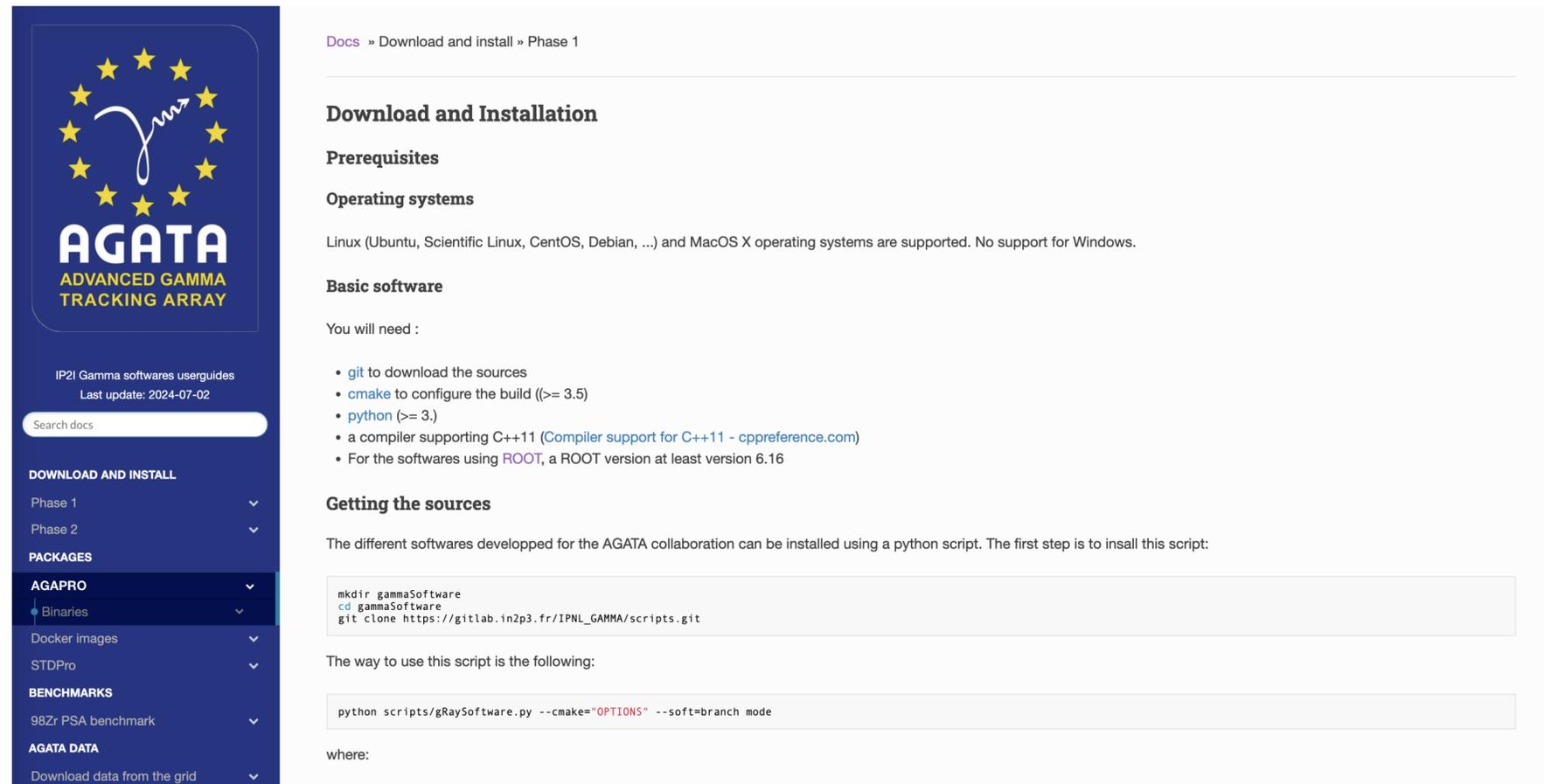
- ➔ First official release of the version 1.0 in February
- ➔ New debug and tools frequently updated (check Release Notes)
- ➔ Full documentation and release notes on <https://cubix.in2p3.fr>

## Grid access

- **New docker image with the Grid User Interface installed:**
  - ➔ allows anybody with a certificate and VO to access the data from its personal computer
- Full documentation on the AGATA user guide web site:
  - ➔ <https://agata.pages.in2p3.fr/handbook/data/grid/>

# Documentation

- AGATA user guide web site: <https://agata.pages.in2p3.fr/handbook>
  - ➔ software installations
  - ➔ available docker images
  - ➔ grid data access manual
  - ➔ benchmark datasets documentation



The screenshot displays the AGATA user guide website. On the left is a dark blue sidebar with the AGATA logo (a stylized 'A' with a wavy line) and the text 'AGATA ADVANCED GAMMA TRACKING ARRAY'. Below the logo, it says 'IP2I Gamma softwares userguides' and 'Last update: 2024-07-02'. There is a search bar labeled 'Search docs'. The sidebar has several menu items: 'DOWNLOAD AND INSTALL' (with sub-items 'Phase 1' and 'Phase 2'), 'PACKAGES' (with sub-items 'AGAPRO', 'Binaries', 'Docker images', 'STDPPro'), 'BENCHMARKS' (with sub-item '98Zr PSA benchmark'), and 'AGATA DATA' (with sub-item 'Download data from the grid').

The main content area is titled 'Docs » Download and install » Phase 1'. It has a section 'Download and Installation' followed by 'Prerequisites' and 'Operating systems'. Under 'Operating systems', it states: 'Linux (Ubuntu, Scientific Linux, CentOS, Debian, ...) and MacOS X operating systems are supported. No support for Windows.' Below that is 'Basic software' with the text 'You will need :'. A list of requirements follows:

- [git](#) to download the sources
- [cmake](#) to configure the build ( $\geq 3.5$ )
- [python](#) ( $\geq 3.$ )
- a compiler supporting C++11 ([Compiler support for C++11 - cppreference.com](#))
- For the softwares using [ROOT](#), a ROOT version at least version 6.16

Next is 'Getting the sources' with the text: 'The different softwares developed for the AGATA collaboration can be installed using a python script. The first step is to install this script:'. Below this is a code block:

```
mkdir gammaSoftware
cd gammaSoftware
git clone https://gitlab.in2p3.fr/IPNL_GAMMA/scripts.git
```

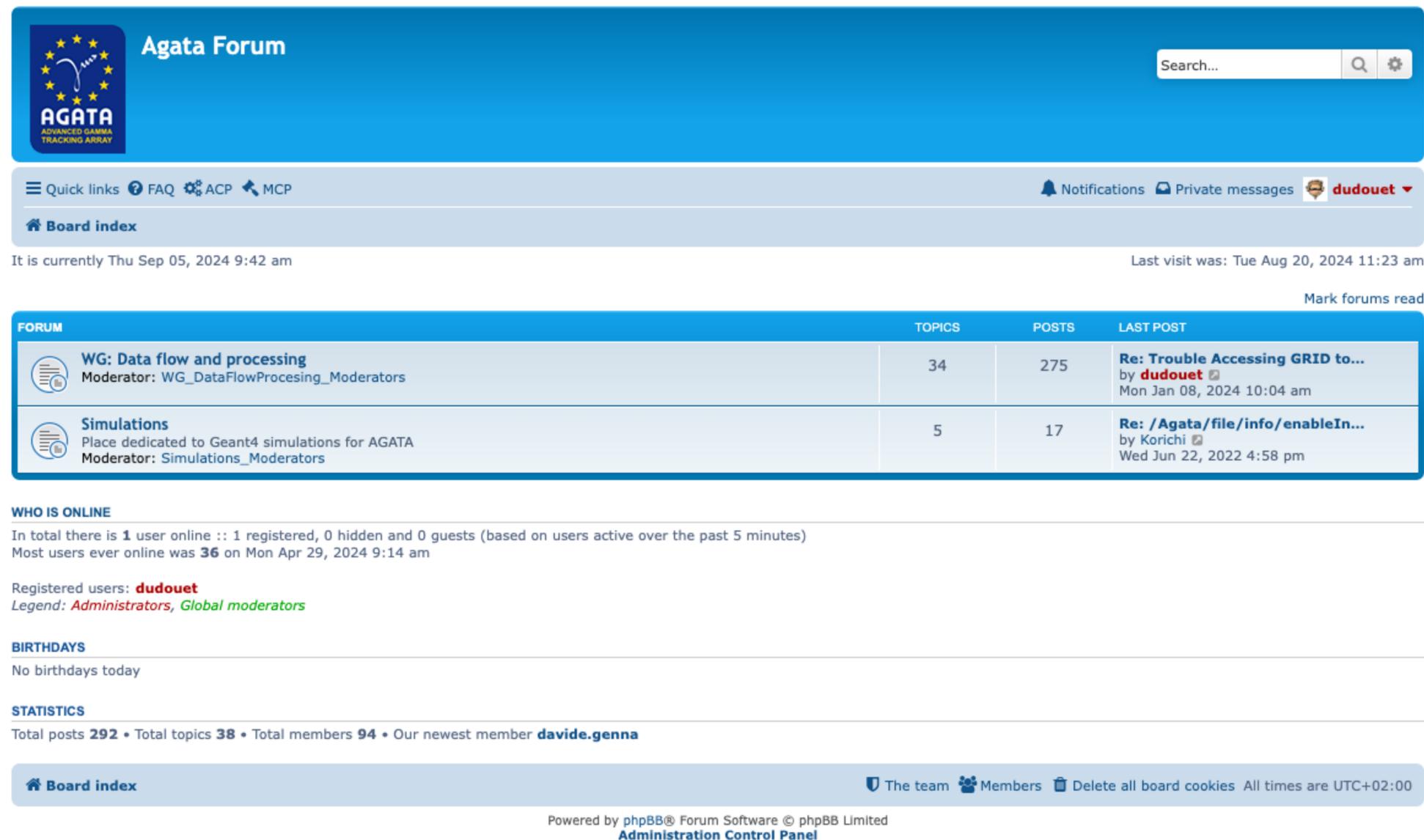
Then it says 'The way to use this script is the following:' followed by another code block:

```
python scripts/gRaySoftware.py --cmake="OPTIONS" --soft=branch mode
```

Finally, it says 'where:'.

## Documentation

The AGATA forum is still available for any topics related to AGATA analysis:  
<http://agata.in2p3.fr/forum>



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 <b>WG: Data flow and processing</b> Moderator: WG_DataFlowProcessing_Moderators	34	275	<b>Re: Trouble Accessing GRID to...</b> by <b>dudouet</b> Mon Jan 08, 2024 10:04 am
 <b>Simulations</b> Place dedicated to Geant4 simulations for AGATA Moderator: Simulations_Moderators	5	17	<b>Re: /Agata/file/info/enableIn...</b> by Korichi Wed Jun 22, 2022 4:58 pm

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Registered users: **dudouet**  
 Legend: *Administrators*, *Global moderators*

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**STATISTICS**  
 Total posts **292** • Total topics **38** • Total members **94** • Our newest member **davide.genna**

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## Any other Business

### EURO-LABS Advanced Training: Open Science and Data Management 24-29 November 2024 in the castle Ebernburg (close to Frankfurt)

- Subjects:
  - ➔ Introduction to Open Science
  - ➔ Introduction to Meta data
  - ➔ Good practices in collaborative developments
  - ➔ Hands-on data challenge on the full week



- Application dead line: 29th of September 2024
  - ➔ <https://indico.gsi.de/event/19808/>
  - ➔ ~ 20-25 participants will be selected from the applications



Merci !