AGATA documentation status

Data Flow and Data Analysis WG
Characterisation and PSA WG

Involved people :

D. Bazzacco, A. Boston, E. Clement, N. Dosmes, J. Dudouet, A. Gadea, L. Hongjie, J. Jacob, A. Korichi, N. Lalovic, E. Legay, J. Ljungvall, A. Lopez-Martens, C. Michelagnoli, R. Perez-Vidal, D. Ralet and O. Stézowski

Amel KORICHI

AGATA users documentation :
action impulsed by Joa Jlungvall and Olivier Stézowski

A working group of volunteers was set

The idea and motivations :

Produce a document that allows the AGATA users to run an experiment and perform the data analysis somehow independent.

Most of the information exist within the collaboration in different format and places

Action : merge them together and improve them if necessary.

Beside the Involved people in this task :

Many other people produced documentation/wiki ... in the collaboration

https://forge.in2p3.fr/projects/agata

Cookbook

StartAGATA_Ganil

How to solve AGATA problems

Generation of Cross-Talk Coefficients and treatment of missing segments

Calibration of neutron damage

Manual for AGATA

AGATA LLP Users guide

AGATA data download from the CC-IN2P3 GRID

AGATA data download from the CC-IN2P3 GRID

Instructions written by Jérémie Jacob on a basis of Yann Aubert instructions

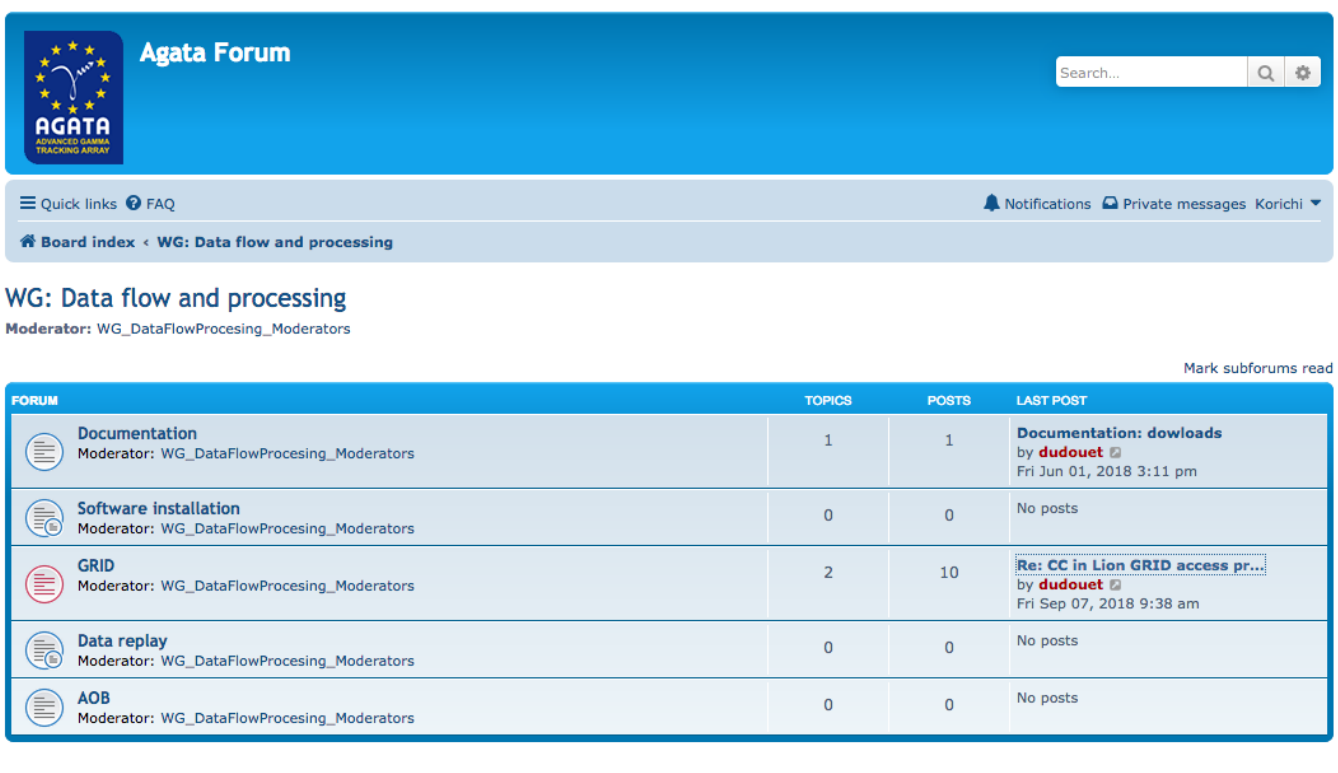
Required tools before downloading the data, log files and execute command

This procedure has been improved by Jérémie Dudouet

No need of the log files

The script is valid for CC-IN2P3 (default sync) and CNAF-Bologna GRID

Available on the web site (Forum) – J. Dudouet talk



Manual for AGATA (sent to the group in May 2017)

Prerequisites for reader/user

Short definition of AGATA terminology

Reminder how/checklist to start AGATA

AGATA front-end electronics
The AGATA crystal and AGATA Triple Cryostat, ATCA, GGP, GTS
.
AGATA electronics servers and accounts

AGATA Set up
Topology setup, Electronic setup, Trigger processor, Final action before taking data

Data taking
Without the global DAQ(Narval), AGATA Narval withGANIL GCC (DCOD)

Calibrations
Data Replay
A Configuring crystal parameters
B Setting parameters for "fast" trigger signals used by ancillary detectors
C Trigger configuration files
D What is what in the different windows
E Trouble shooting

AGATA Data Analysis User's guide Local Level Processing

- Some general statements
  - NARVAL, actors and the AGAPRO package
  - The AGATA local level Processing.
  - Replay of Data / Emulators
    - Narval
    - Femul
  - Replay of Data / Directories organization
- The different actors processing the data flow
  - The Preprocessing actor
    - Energy calibration
    - Pole-zero / shaping-time adjustments
    - Time alignment
    - Crosstalk corrections
  - The PSA actor
  - The PostPSA actor
    - neutron corrections
    - Final energy re-calibration
    - Global time alignments
    - Force segments to core
    - Replay configuration for PostPSAFilter

Next step : validation/tests of the documentation

November 12-23 at GANIL

CSNSM, IPNL, Liverpool and others are welcome !

Thank you !

Jérémie Dudouet, LI Hongjie, Jérémie Jacob, Natasa Lalovic, **Joa Ljungvall**,

Caterina Michelagnoli, Rosa Perez-Vidal, Damian Ralet and **O. Stézowski**