Report on data Analysis team: Data re-processing and storage

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On behalf of the Data analysis WG

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Goals

⇒ Team members : Fabio Crespi, Jérémie Dudouet

⇒ Support on data transfer management:

↪ Tools to simplify data transfer from the grid

↪ Tools to simplify data replay from the grid (none for the moment...)

⇒ Support on data processing:

↪ Organization of workshops dedicated to data analysis

- The last one in Orsay in Januray 2019, dedicated on the AGATA-NEDA campaign.
- The next one will be organized in early 2020 dedicated to the 2019 AGATA-MUGAST-VAMOS campaign (needs to be coordinated between experts of these three detectors).

↪ Contributions to the elaboration of documentations

↪ Software support

Support related to Data download from the grid

⇒ Development of a new python script python for a user-friendly download of the data
- ↪ manages the generation of proxies
- ↪ allows to list the data repositories on the different “Storage Elements”
- ↪ selection of the repositories to download (from Lyon or Bologna)

⇒ A full documentation is available

```
[dudouet@ipngrid08 GridTest]$ ./DataSync.py
 ******************************
 ** Hi ! How can I help you ? **
 ******************************

    --help           : print this help
    --proxy_info     : show proxy info
    --new_proxy      : create a new proxy
    --show_tiers     : show the different Tier paths
    --show_se        : show agata storage elements
    --show_ce        : show agata computer elements
    --from_CNAF      : download data from Bologna
    --from_LYON      : download data from CC Lyon (default)
    --ls_dir         : show grid arborescence of folder dir
    --input_dir      : copy grid data data from folder dir
    --output_dir     : copy grid data data into local folder dir
    --clean_dist_dir : remove a folder from a Tier2 server
    --build_list     : build the list of files to be downloaded (mandatory before start)
    --show_locality  : show locality of the files ( ONLINE= on disks ; NEARLINE= on tape )
    --bring_online   : move files from tape to disks (make the copy of files faster)
    --start          : download files from the grid
    --v              : verbose mode

 ******************************
 **  Hope this helps ! Bye !! **
 ******************************
```

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People involved in this document:

F. Crespi, J. Dudouet

NOTE: Please for any comment/question/suggestion, use the forum:
http://www.agata.org/forum

Support related to data-reprocessing

⇒ The Local Level Processing user-guide is now available

↪ takes into account all the needed operations from the producer to the Post-PSA level: energy calibrations, time alignment, X-talk, neutron damage, data replay...

↪ It has been checked, tested, and improved thanks to beta-testers : F. Holloway, A. Korichi and M. Siciliano

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People involved in this document:

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Support related to data-reprocessing

⇒ The Global Level Processing user-guide is also available

↪ takes into account Event-building, Event-merging, Tracking and Root conversion.

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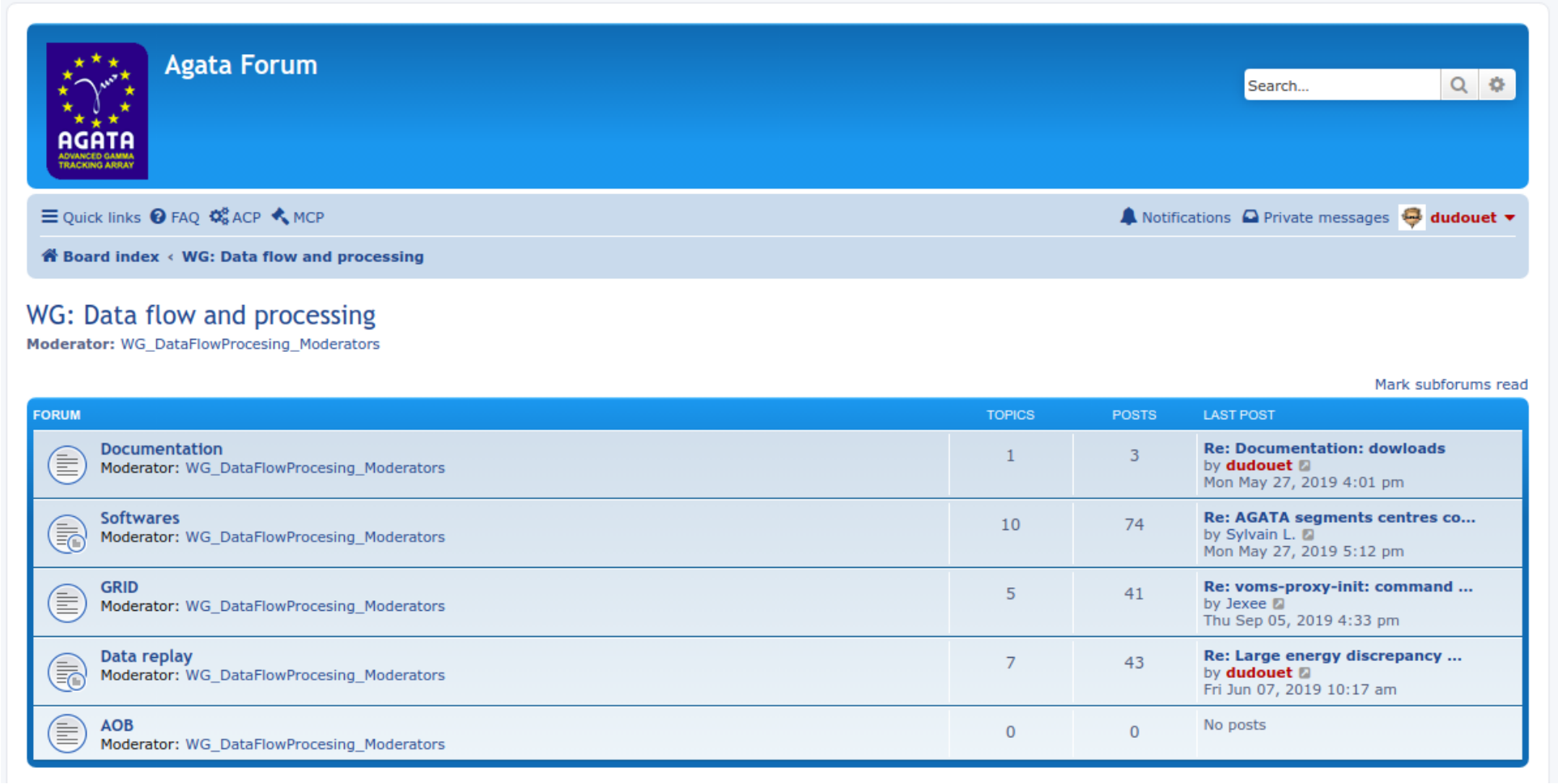
The AGATA Forum: www.agata.org/forum

⇒ The forum is dedicated place for:

↪ Software, Grid, Data analysis...

↪ Documentation download



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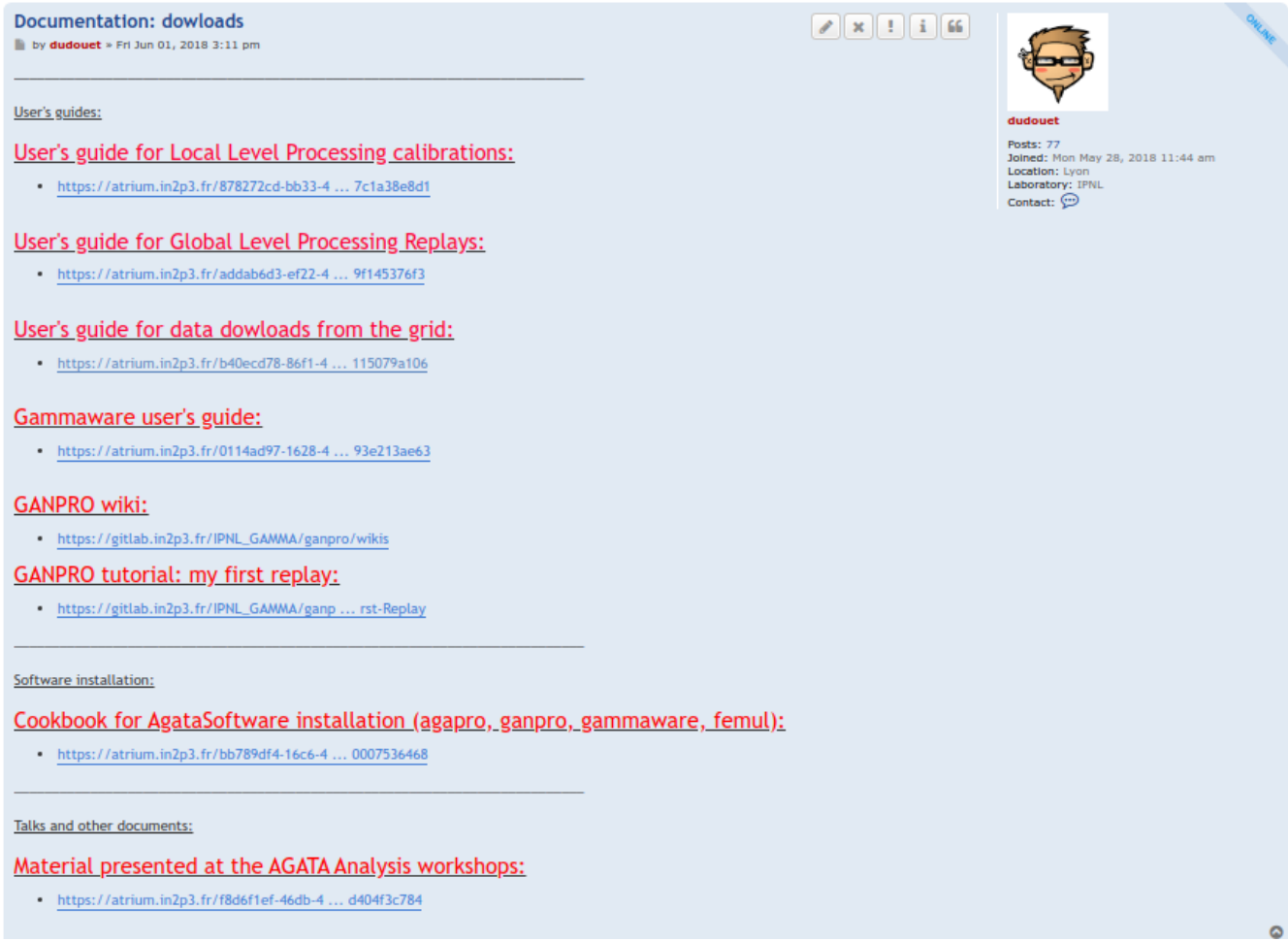

Documentation: dowloads

by **dudouet** » Fri Jun 01, 2018 3:11 pm

User's guides:

User's guide for Local Level Processing calibrations:

- https://atrium.in2p3.fr/878272cd-bb33-4 ... 7c1a38e8d1

User's guide for Global Level Processing Replays:

- https://atrium.in2p3.fr/addab6d3-ef22-4 ... 9f145376f3

User's guide for data dowloads from the grid:

- https://atrium.in2p3.fr/b40ecd78-86f1-4 ... 115079a106

Gammaware user's guide:

- https://atrium.in2p3.fr/0114ad97-1628-4 ... 93e213ae63

GANPRO wiki:

- https://gitlab.in2p3.fr/IPNL_GAMMA/ganpro/wikis

GANPRO tutorial: my first replay:

- https://gitlab.in2p3.fr/IPNL_GAMMA/ganp ... rst-Replay

Software installation:

Cookbook for AgataSoftware installation (agapro, ganpro, gammaware, femul):

- https://atrium.in2p3.fr/bb789df4-16c6-4 ... 0007536468

Talks and other documents:

Material presented at the AGATA Analysis workshops:

- https://atrium.in2p3.fr/f8d6f1ef-46db-4 ... d404f3c784

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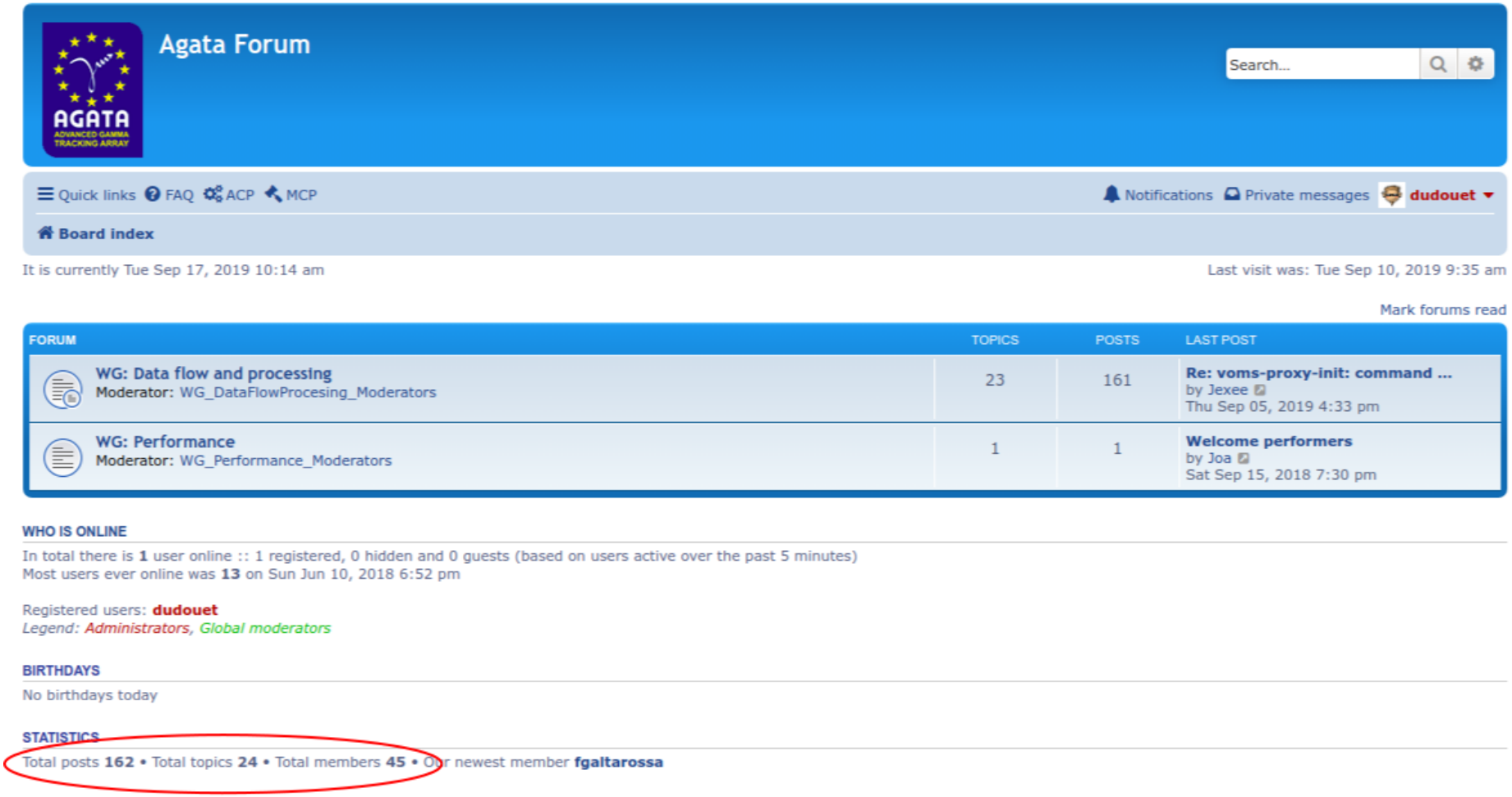

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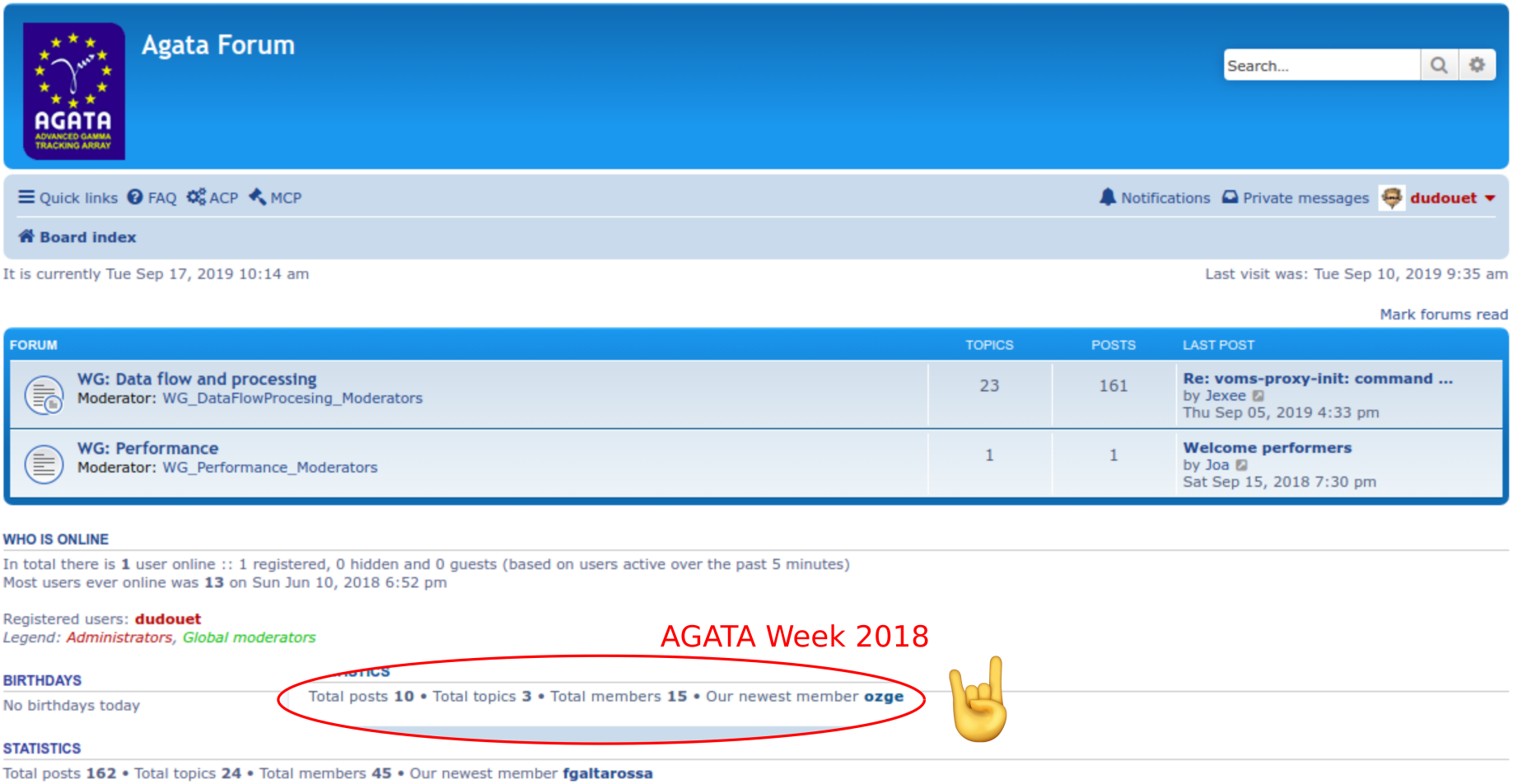

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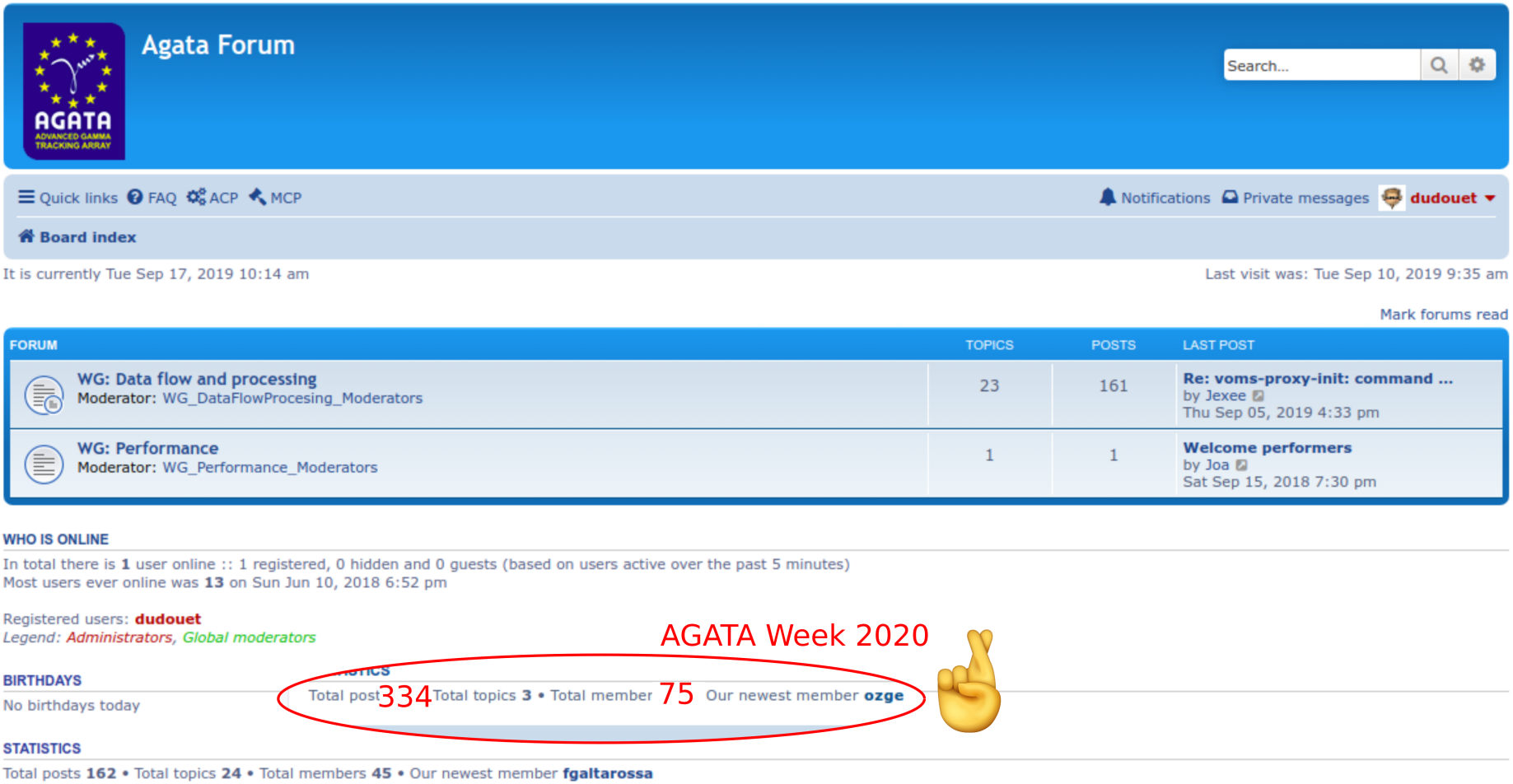

Thank you for your attention!