AGATA: Task 11 – Exploitation

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INFN - LNL

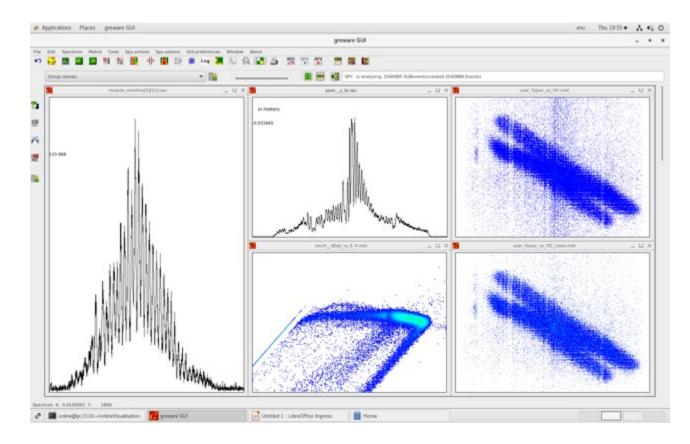
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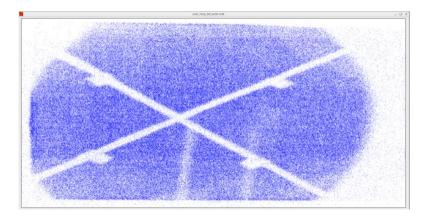
In collaboration, with A. Goasduff, R. Perez, J. Dudouet

General ideas for measurement running

- AGATA data spied locally with AgaSpy. Check detector by detector
- PRISMA data spied and «sorted» locally (E-ΔE, A/q matrices) : Greware software
- Ancillary data spied and «sorted» locally from GGP by Greware (or TkT)
- Merged data: on line or near line ? Maybe better near line to keep the high-level data check (reaction channel of interest) from detector monitoring (on-line)

Example of spying for PRISMA



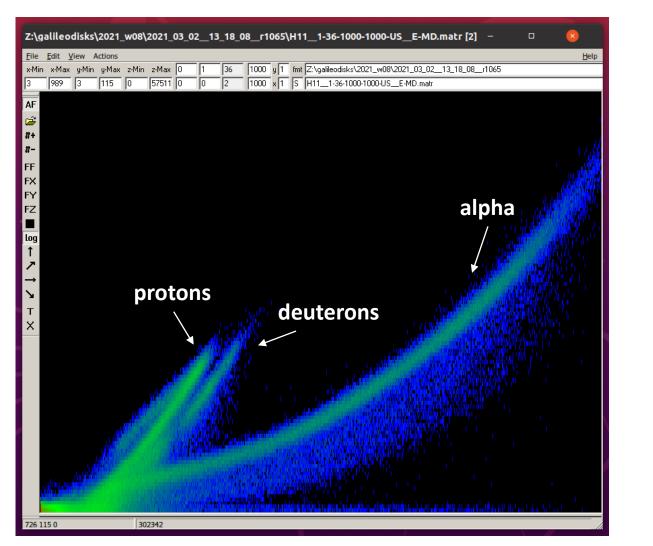


Entrance MCP

Focal plane

Example of spying for ancillaries

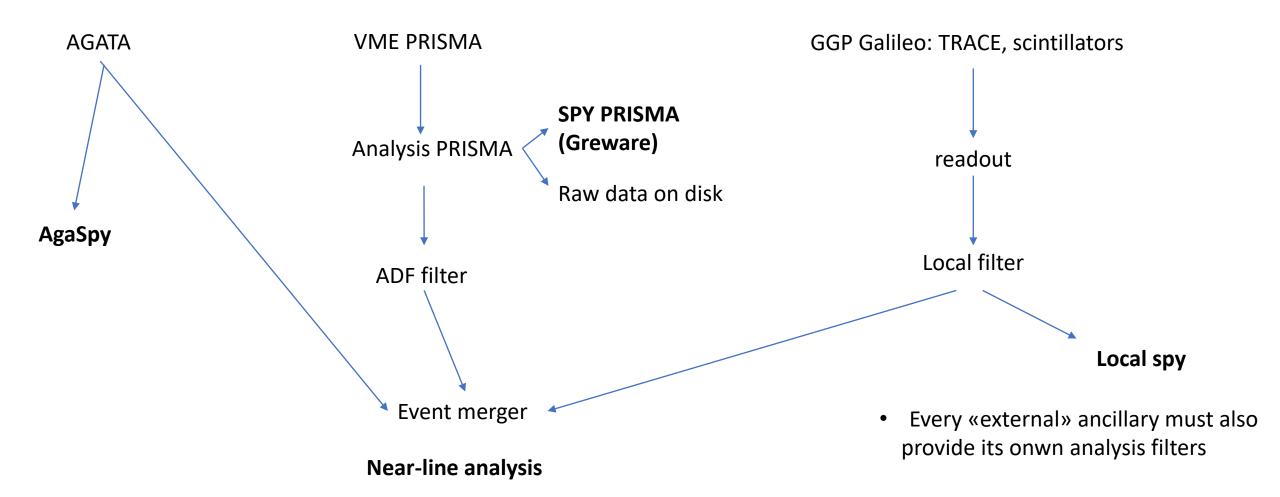
TRACE: PSA discrimination



EUCLIDES: E-ΔE plot

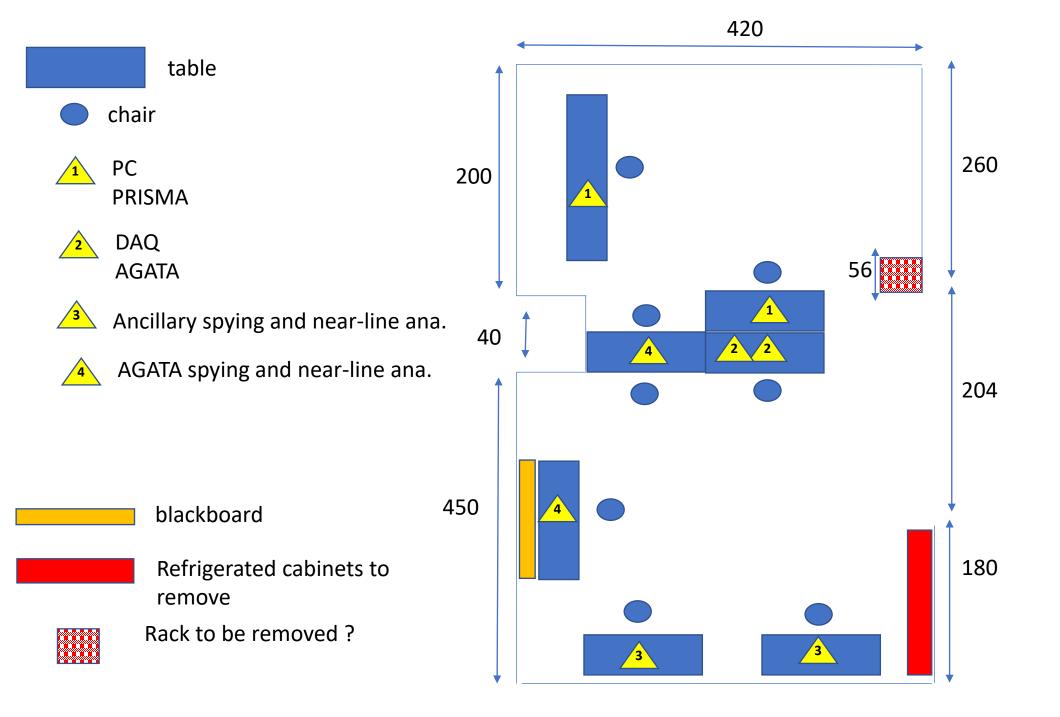
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Data flux and codes for on-line, near-line analysis



Data flux and codes for on-line, near-line analysis

- PRISMA: code for data analysis on existing GIT INFN servers: **it will be modified** to be compatible with femul and then put into agapro repository: those who download "agapro" will also have PRISMA library. Then it will also be put in the DAQ
- data sent to PRISMA library will be pre-analyzed data (calibrations, etc...)
- PRISMA-> data written on parallel on disk, spy for PRISMA analysis/monitoring. PRISMA Library Filter -> ADF-> Event Merger AGATA-> spy later to see AGATA (J. Dudouet). The PRISMA filter will be written in the coming moths.
- GGP galileo (for Trace and scintillators)->readout->localfilter->event builder->event merger ancillary in adf format->Event merger AGATA. Everything already exists.
- Collaboration set up with Jérémie Dudouet and Olivier Stezowski from IP2I Lyon.



Time schedule

Project Planner

Select a period to highlight at right. A legend describin	ng the charting f	follows.			Period Highlight:	1 Plan Duration Actual Start Complete Actual (beyond plan Complete (beyond plan
ΑCTIVITY	PLAN START	PLAN DURATION	ACTUAL START	ACTUAL DURATION	PERCENT COMPLETE	Months from 01/06/2020 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38
Planning DAQ Room	1	6	1	5	90%	
Preparing DAQ room	7	6			0%	
Procurement of DAQ PCs	7	4			0%	
Planning near-line analysis codes Preparation of data Analysis (PRISMA)	1	2	1	2	100%	
Filters	7	4			0%	
Preparation of near-line AGATA-PRISMA	11	2			0%	
Protocol for integration of other ancillarys	9	5			0%	