

	MI	NUTES OF MEE	ГING
Title/Subject:	Agata Manage	ement Meeting	
Venue: Time/Date:	Room T2 Chad University 11:00-17:00 5 th	lwick Building Liverpool	Chairman: Paul Nolan Secretary: Mike Cordwell
	PARTICIPANTS A		ADDITIONAL DISTRIBUTION
Andy Boston Paul Nolan John Simpson John Strachan Zsolt Podolyak Ian Lazarus John Smith Mike Cordwell Pankaj Joshi		University of Liverpool University of Liverpool STFC Daresbury STFC Daresbury University of Surrey STFC Daresbury University of WoS STFC Daresbury University of York	APOLOGIES
			Dave Cullen Bob Wadsworth
AGENDA REF:			
ATTACHMENTS	S:		



1. Minutes of previous meeting

Agreed without changes.

2. Actions from previous meetings

1.4 Andy Boston to speak to John Cresswell about a UK strategy for data storage. **On-going**

2.6 Paul Nolan to find how to get access to the letters of intent for the physics proposals for agata at Legnaro. **Complete**

The meeting has happened and there was a widely circulated e-mail.

3. Actions from this meeting

List of references to be published, to be kept by the project manager. Keep the DOI reference of the papers. Action 2.1 Mike Cordwell

 PSA Development : Andy Boston leads this area internationally. (John Simpson wants a photo of the Liverpool scanning system.)

 Action 2.2 Andrew Boston

Paul Nolan to contact Legnaro about extending the length of the Physics campaign into 2011 Action 4.1 Paul Nolan

The current MoU and the EURONS JRA need a Technical design report by the end of the year. John Simpson will distribute the final version.

Action 4.2 John Simpson

How much of the work that we are doing on the MGS is used in Legnaro?

Answer: Liverpool got the original pulse shape experimentally from the symmetric detectors. They used the results to improve the MGS simulations, and then used these simulations to predict the asymmetric performance. Liverpool are still waiting on experimental data to check the asymmetric simulations. The whole collaboration currently relies on this database. The pulse shape databases generated in the UK are the ones used at Legnaro.

The Pulse shapes from the experiments with asymmetric detectors will be recorded for 6-9 months then only positions will be recorded.

Andy to create a flow chart of these actions and then colour in the bits the UK does with respect to other countries.

Action 4.3 Andrew Boston

Find out more about the Potassium peaks, are they the expected width? What is the spectrum of? Single segment, or complete triple? Has it been corrected for Doppler effect etc?

Action 4.4 John Smith



4. Report on current situation in the International AGATA project

Paul is now the chair of the Agata Steering committee.

The main question is where the next campaign will be.

Agata require 12 weeks of beamtime for fastbeam aspects of PreSpec, we should have found out in mid-May if this is acceptable. The director of GSI said that it was up to the ASC and PreSpec to get the agreement of the community. PreSpec's plans have been laid out to the director and it is now up to NuStar to agree.

Silva Lenzi has approached AGATA as chair of GAMMAPOOL to arrange a meeting between GSI/GANIL/LEGNARO and AGATA to get a plan for the next 5 years

Suggested meeting date is 1st July.

At this stage it is genuinely not known where Agata will be hosted next.

LEGNARO is not clear if AGATA should stay longer. New Director will be in place. Paul Nolan to contact Legnaro about extending the length of the Physics campaign into 2011

Action 4.1 Paul Nolan

France: -	Currently negotiating for funds End of June presentation to INP23 (hopefully positive)
Labs in Franc	
Germany: -	Have zero for capital funds Have running costs and support for AGATA No FAIR funding from BMBF
Sweden: -	Unclear
Italy: - digitisers.	Ongoing, continue to fund AGATA. Will order 4 detectors and will fund 2
Turkey: -	unlikely to bid for more funding.
	28 detectors by end of 2010 ryostats by 2011
Electronics &	Data Acquisition:- Decision to be taken on what electronics will be. Ian Lazarus needs two years to re-design.
Physics DAQ	Proposed for GSI in January 2010. meeting 2 nd April 2009 ning costs has been submitted to the AGATA steering committee.



Political AGATA

The current management board are employed to manage the demonstrator not the next phase. Discussion is required in June to sort out the new management board.

There is currently no specification for the next phase of Agata development.

No clear view on what the next phase electronics will be.

Internationally the project needs putting back on track.

5. Position concerning filling new positions and Grant Start Dates

Manchester PDRA Liverpool PDRA Technical person WoS PDRA -	- - Candi	Person started 1 st May Person started 6 th April Position to be filled September this year. date short listed due to start telephone interviews next week.
Liverpool Student Surrey Student York Student	- - -	Student started Jan 09 Student started Sept 08 Student started Sept 08
Project Manager	-	Mike Cordwell will replace John Strachan after the OC meeting.

The current MoU and the EURONS JRA need a Technical design report by the end of the year. John Simpson will distribute the final version.

Action 4.2 John Simpson

Grant Start dates:

Liverpool started on 1st September 2008 Surrey and York started on 1st October 2008 Manchester started on 1st November 2008 University of the West of Scotland started on 1st Jan 2009

Personnel changes:

Paul Nolan is the new chair of the ASC from 1st April 2009

Mike Cordwell will take over from John Strachan as the Project Manager after the Oversight committee

The York student has left and will be replaced by another student on a 3 year deal.

Student Activity

Surrey – Provided support for the source test and first in-beam test. Has the MGS code running and is waiting for data to test.

York – The student has left but was doing simulations, Pankaj and Marc have picked up his tasks. They have installed various simulation codes, performed some testing and arranged meetings with people to understand the codes.

Liverpool – Has been working on the in-beam data to try and understand it.

6. Discussion on Workpackages

Firstly some questions relating to WP2, 3 and 4 were placed to Andy Boston: How much of the work that we are doing on the MGS is used in Legnaro?

Answer: Liverpool got the original pulse shapes experimentally from the symmetric detectors. They used the results to improve the MGS simulations, and then used the simulation code to predict the asymmetric performance. Liverpool are still waiting on experimental data to check the asymmetric simulations. The whole collaboration currently relies on this database.

The pulse shape databases generated in the UK are the ones used at Legnaro.

The Pulse shapes from the asymmetric experiments will be recorded for 6-9 months then if all is understood only positions will be recorded.

Andy to create a flow chart of these actions and then colour in the bits the UK does with respect to other countries.

Action 4.3 Andrew Boston

After this each workpackage was discussed individually.

Workpackage 1

The Liverpool technician will undertake the assembly and testing of the triple cluster (in future).

The Liverpool student is working on the characterisation and validation.

The Manchester post doc is taking the Liverpool output.

Workpackage 2 Regarding Milestone 2.4 Pulse Shape Analysis

Detector Characterisation

Adaptive grid search (UK/Legnaro) used to investigate multiple interactions in a single segment (Manchester/Surrey/Legnaro). Dave Radford in the USA has already done this.

Orientation of axis is not in the acceptance tests as it can only be determined following a scan.

List of references to be published, to be kept by the project manager. Keep the DOI reference of the papers. Action 2.1 Mike Cordwell

Detector Characterisation : Pulse shape comparison scan method

Scan C001 delay due to cooling problems. Required FET replacements. Detector almost ready for the scan.

The result will be a delay in the milestone to deliver basis data set



Legnaro have dropped the voltage to 4000 volts, because it is stable. It should run at 5000 volts, what implications at running at 4000 volts? Liverpool will investigate.

Difference between MGS and actual measurements – differential crosstalk. Liverpool have spoken to Dave Radford about this.

 PSA Development : Andy Boston leads this area internationally. (John Simpson wants a photo of the Liverpool scanning system.)

 Action 2.2 Andrew Boston

Workpackage 3 Simulations and implementation of algorithms

GEANT code successfully installed with existing experimental facilities. More implemented during the commissioning.

WP 3 was set up for the UK BENEFIT.

Workpackage 4 Support for commissioning phase at Legnaro

Workpackage 5 Electronics and software

Work on Demonstrators

Firmware upgrade done.

18 digitisers made

18 functional tests done (UK)

7 performance tests of digitisers (France)

Workpackage 6 Mechanics Not started until we know where AGATA will go after Legnaro. ASC to make decision in June.

Workpackage 7 Management

Workpackage 8 Germanium ordered. First delivery 17 months, then at 2 month intervals.

7. Membership of AGATA committees



How to operate and manage AGATA in the future, which laboratories are involved and organisational structure of the project. John Simpson, Paul Nolan and Wolfram Korten have been asked by the AGATA ASC to write document summarising these issues.

The next AGATA week is liable to be in GSI. Dates in January 2010 are currently proposed.

UK has 8 institutions.

We have been asked by the ASC to ask the institutions who they want to nominate on to the Coordination Council.

All UK institutions need to nominate someone for the Coordination Council.

The Co-ordination Council will elect a spokesperson for AGATA.

The Co-ordination Council is tasked with organising a physics meeting once a year to highlight the AGATA achievements.

The Coordination Committee will be formerly started at a Physics workshop.

The next LNL PAC for AGATA proposals will be held in June-July 2009.

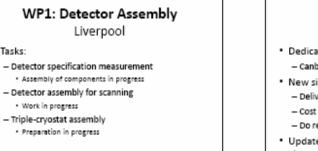
Next meeting:

Wednesday 30th September 2009 at UWS Wednesday 6th January 2010 at Manchester



Tasks:

WP1 Slides



Detector specification measurement

- · Dedicated testing system - Canberra equipment delivered
- New single test cryostat
- Delivery time 12 months
- Cost too high
- Do require component parts
- Updated firmware for 40 Gretina digitiser channels.

Detector assembly for scanning

The AGATA asymmetric detector C001 has been re-• assembled and tested, prior to scanning (WP2) in the laboratory

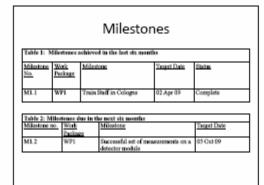


Detector assembly for scanning

- · H. Boston, C. Unsworth trained in Cologne
- Subsequently trained M. Norman and S. Moon
- Preamplifier test box shipped to Liverpool
- · Delays in reassembly due to internal wiring
- troubleshooting and slow pumping system
- Flaky internal wiring possible Kapton cabling
- · Cross talk data collected and analysed with Gretina cards
- · Energy resolution verified with analogue electronics

Triple-cryostat assembly

- · New pumping system due for delivery
- System will be commissioned
- New triple cryostat order in progress





WP2 Slides

WP2: Interaction position determination using pulse shape analysis Manchester, Liverpool, Surrey

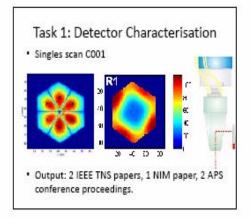
Tasks:

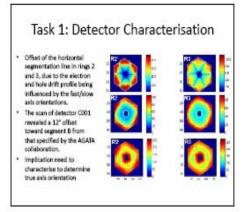
- Detector Characterisation
- C001 detector scan
- MGS 3D Simulation code comparison with expt.
 Work in progress
- PSA development
- Work has started

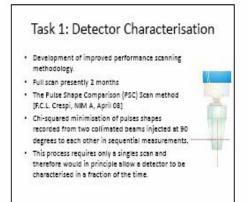
WP 2 report

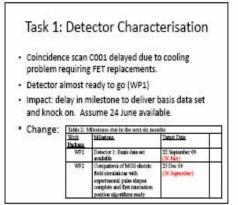
General Comments:

- . S. Moon and A. Robinson started as PDRAs
- PSA team meetings
- AGATA week in Cologne (30 March)
- Legnaro (21-22 May 09)
- Bi-weekly telephone meetings





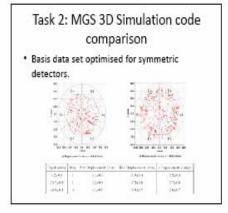


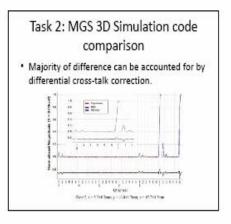


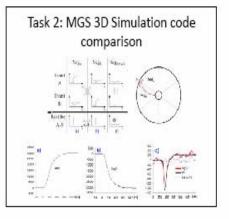


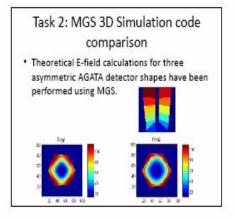
Task 1: Detailed future plans

- Completion of coincidence scan
- ¹³⁷Cs singles scan from side
- ²⁴¹Am surface scan
- Collaboration with Fabio Crespi (Milan) to produce single site interaction pulses from front and side singles scans using χ2 minimisation
- Singles scan with varying bias to study depleti on behaviour.





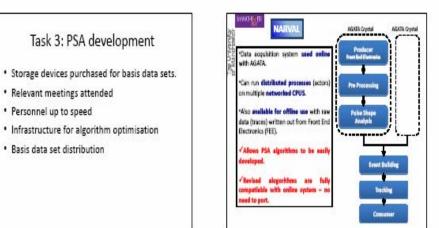


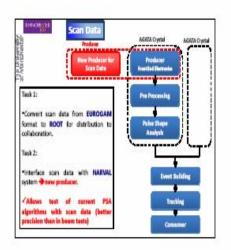


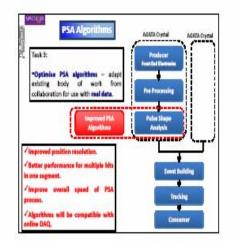
Task 2: MGS 3D Simulation code comparison

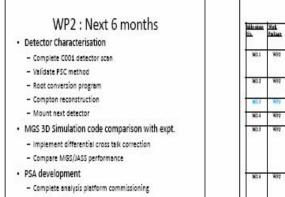
- Reasonable good agreement
- Axis orientation issue
- MGS grid issue (missing points)
- First triple basis delivered to LNL for in beam
- Performance is promising



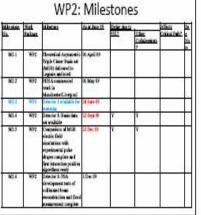






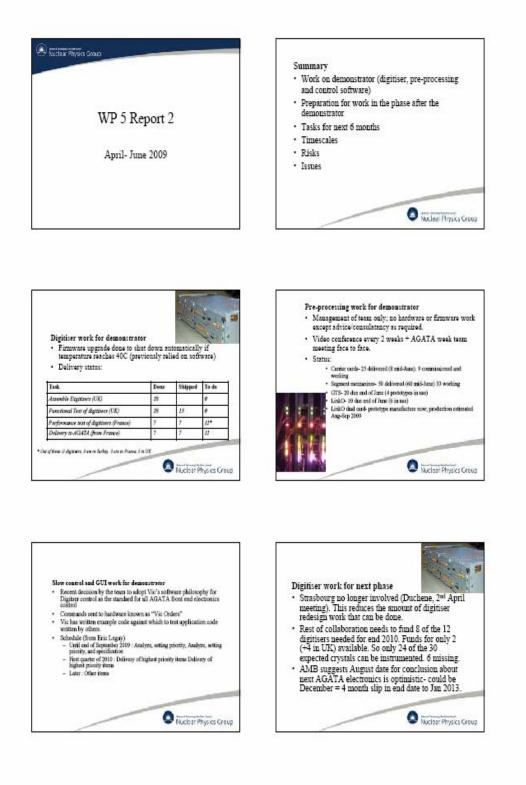








WP5 Slides





WP6 Slides

WP6: Mechanical Work Package Daresbury, Liverpool

• Tasks: - Support for AGATA at Legnaro - Installation of detectors

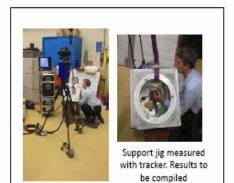


much improved









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Tasks over next 6 months: Determine the source of the deflections using FEA. Modify necessary components.

Decisions: Awaiting decision on the location of the next host lab.