Agata/AMBMin/Feb11/04D

**Draft Minutes AGATA Management Board**

17th -18th February 2011, IKP – University of Cologne 17/02 at 14:30 to 18/02 13:00

**Present:**

A. Boston

G. Duchêne

E. Farnea

A. Gadea

A. Korichi

P. J. Nolan (ASC chairperson)

J. Nyberg

P. Reiter

J. Simpson

Ch. Theisen

H-J. Wollersheim GSI local project manager

1. **Apologies for absence**

**2. Minutes of the last meeting**, 1st December 2010, Paris at IN2P3 head quarter. The draft minutes Agata/AMBMin/Dec10/01F were accepted as a correct record of the meeting.

**Action** AG to distribute as Agata/AMBMin/Dec10/Final

**3. Matters arising from the last meeting and actions outstanding from last phone conference**

**Action** PJN to investigate common account issue.

Ongoing. Will take on board at the next ASC (21st of march).

**Note:** Discussed during the AMB, it might be possible for running costs, serious doubts about the possibility to have a common platform due to VAT issues and to the necessity of financial agencies to get a final inventory “object” during the duration of the projects.

**Action** Project definition

Discussed early version during the AMB meeting see latter notes

**Action** all investigate available funds in each country.

**Action** GD, EF, JS, CT to have an initial attempt to allocate funds to items.

Ongoing

**Action:** Finish project definition for the “early” GSI phase

Ongoing

**Action: All** to prepare the NIM contribution draft for the next AMB meeting (1st December). Length 2 to 4 pages for W.G.

**Ongoing: Received several contributions. Next deadline 7th March**

**Action: AG,PR** to prepare a short document on the benefits, options and costs of   
 having double Clusters in AGATA. It should include the discussion on the benefit for GANIL when using RIB and on the coupling with Spectrometers.

Done, Corrections required

**Action: AG,EF** formal proposal for the use of the ENSAR funds for LNL   
 (63542k€)

Urgent to define the use: decided to proceed with the LNL proposal

Done, problems with the allocation of the funds in the project arise. No problem with travelling   
 costs. Consultations with W.Korten and M.Harakeh to check.

**Action: All** check availability of funds for 2 ATCA crates

Ongoing

**Note: H.-J. W. To check if it can be covered by the GSI installation costs.**

**Action:** E.F./H.-J.W. check with the Mechanical infrastructure group if it is possible to optimize a setup with AGATA and Miniball detectors.

**Ongoing: J.S. Informed that is not an easy task, it is geometrically complicated and it will require modification of the way the Miniball detectors are held.**

**Action:** J.N. To ensure that Monte-Carlo simulation of the AGATA + Miniball detector setup is performed and to evaluate the performance figures.

**Action:** H.-J.W./A.G. to prepare a request for the Miniball Steering Committee

Informal communication to the Miniball Steering Committee, well received.

Formal request after check mechanical.

**Note: News summarized latter, just for information CERN is not stopping in 2012 and Miniball   
detectors can only be used starting from Winter Stop late 2012. It is not feasible therefore to have Miniball detectors for all experiments**

**Action: A.G.** check the missing items (VME carriers and Linco)

**Done and included in Project Definition**

**Action**: A.G., E,F, Attempt to allocate enough GTS mezzanines and AGAVA cards to deliver a small test tree to GSI.

M.Bellato checking the GTS mezzanines available. Number of mezzanines very limited for the present phase (5 ATC at LNL).We will try to solve this issue as soon as the ATC5 is installed and the real number of available GTS mezzanines is clear.

**Action: All** parts necessary for the installation of the ATC5 FEE at LNL by 15th February

**Done: CSNSM Orsay has dismounted their Test Bench to make available all good FEE items at LNL and the AMB acknowledges the troubles and harm to their development programme. In addition they havedelivered the non working carriers and an agreement is taken with D. Bortolato to do the checking/repairing work.**

**4. AMB organisation: Team leaders**

-Corrections to the New AMB structure discussed. All members agreed tasks distribution. Consider the Teams more as tasks.

Also all memebres agreed that one task should be under the responsibility of only one person.

-Front-End Electronics:

It has to work as a single group in the present phase.

Proposed to have Alberto Pullia as Preamplifier and Digitizer tasks leader

New Team on Slow Control: responsible Eric Legay

Proposed to keep the previous leaders for the other tasks

**Action: A.G.** to contact E.Legay and propose him the leadership of the slow control task

-Data Flow:

Two Teams:

1. Software: including the tasks of Data Flow, Services, Grid access and backup   
   leader Xavier Grave
2. Hardware: with the following tasks NSA (Network, Service and Administration) and Local Infrastructure   
   leader H. Schaftner

-Data Analysis

Data Analysis and Tracking coordinated tasks Olivier Stezowski and   
 Araceli Lopez-Martens.

PSA: Roman Gernhauser.

GRID: to be discussed and agreed with Data Flow.

-Infrastructure

Detector array Infrastructure (DSS) task: leader Pete Jones

Mechanical Infrastructure task: leader Jonathan Strachan

-Complementary Detectors

Merged the Mechanical integration within the Mechanical Infrastructure task

Electronics and Data acquisition Integration: to be defined

Complementary Detectors task: to be defined

-Performance and Simulations

AGATA Physics & exp. Simulation task: leader Marc Labiche

AGATA Experimental commissioning task: leader Cesar Domingo-Pardo

-Detector Module

Detector Module & Cryostat: is the core task of Cologne (to be defined)

Detector Characterization task: proposed Bart Bruyneel and F. Le Blanc

Detector Acceptance task: proposed Helen Boston and B. Bruyneel

R&D on Ge detectors and associated technologies task: (to be defined)

**Action**: AMB Next occasion discuss if the task of the AGATA data base should continue with the orientation of AGATA inventory and we needed task and leader.

**5.ASC report**

**Next meeting of the ASC 21st -22nd March Madrid**

Important issues still opened are: the AGATA Double Clusters and Publication Policy

Required as well a status of the project and the project definition document

NuPECC call for proposals with broad European participation to be financed.

Common financial platform: Necessary to prepare a proposal in the new project definition indicating   
which item can benefit from the common platform structure.

**Action: A.G., All** to prepare the project report for the ASC meeting

**6. Reports from Working Groups**

1. **Status at Legnaro**

Sudden problems with ATC4. Measured end of January with good performance, this week it shows bad resolution in crystal “C”. This is very strange since all conditions (Autofill, LV, HV, …) were very stable over the past few weeks. Preliminary tests suggest that it is drawing current from the front segments. To be dismounted from the frame tomorrow morning and to be retested in vertical position.

Electronics for ATC5 being set-up over the past two weeks, this week with the participation of two engineers from Orsay (Bruno Travers, Xavier Lafay).

Call for proposals: requests for AGATA(+PRISMA) amount to 38 days (84 total days requested, ~25 available according to the latest informal news)

Present beam time schedule covers only up to 9th March; immediately afterwards, experiments approved in the PAC meeting of 4th March might be scheduled (no oral presentations at this PAC meeting, EF will have anyway to report on the status of the Demonstrator)

Meeting with the accelerator people 16th February: very long reports on the accelerator problems and on the scheduled/unscheduled maintenance performed so far. Planned availability of beams to users as following:

Tandem:

4th March → 18th April

Easter break

25th May → 31st July

Summer break

3rd October → 20th December

Linac

15th May → 31st July

Summer break (no shutdown of the cryogenic plant to ensure earlier restart of beams)

20th September → 20th December

Linac beams will have the highest priority up to 31st July in order to take out most of the backlog.

1. **Detector module and characterisation**

**Overview AGATA detectors**

**A001 73952 ATC4 Legnaro - ATC4**

**A002 74030 ATC3 Legnaro - ATC3**

**A003 74009 ATC2 Legnaro - ATC2**

**A004 74095 ATC5 IKP - ATC5**

**A005 73949 IKP to be returned to canberra**

**A006 74096 ATC1 Legnaro - ATC1**

**A007 74108 Canberra repair**

**A008 74108 Liverpool CAT ok**

**A009 74209 Saclay CAT**

**B001 74034 ATC1 Legnaro - ATC1**

**B002 73979 ATC4 Legnaro - ATC4**

**B003 74026 ATC2 Legnaro - ATC2**

**B004 74010 Canberra repair**

**B005 74065 ATC3 Legnaro - ATC3**

**B006 74076 Canberra repair**

**B007 74208 ATC5 IKP - ATC5, broken segment**

**B009 74207 Liverpool CAT ok**

**C001 73899 ATC3 Legnaro - ATC3**

**C002 73951 ATC4 Legnaro - ATC4**

**C003 74013 ATC1 Legnaro - ATC1**

**C004 74036 Canberra repair**

**C005 74033 ATC2 Legnaro - ATC2**

**C006 74115 ATC5 IKP - ATC5**

**C007 74164 IKP ok only after annealing**

**Please note B008 is missing!**

**Latest deliveries by Canberra:**

**- A009 (new): 30.11.10**

**- B007 (new): 30.11.10**

**- B009 (new): 23.12.10**

**Available detector types**

**A-type:**

**- six detectors are tested and within specs**

**- two broken**

**- one CAT ongoing**

**B-type**

**- four detectors are tested, within specs, used for ATC1-4**

**- one B-type in ATC5, broken segment, Canberra for repair**

**- two broken**

**- one accepted?, slightly out of specs**

**C-type**

**- four detectors are tested and within specs, used for ATC1-4**

**- C007 now ok, failed in ATC5, then annealed, was slightly out of specs, poor crystal quality**

**- C006 failed in ATC5 at IKP, has to go to Canberra for repair**

**- C004 at Canberra**

**Customer acceptance tests**

**Detector A008: accepted, done at Liverpool**

**Detector A009: CAT ongoing at CEA**

**Detector B009: done at Liverpool, energy resolutions within spec on all channels accept two fronts which are 0.1keV out at Co-60**

**Status of AGATA triple detectors**

**ATC1 @ Legnaro**

**Detectors: A006, B001, C003**

**- Detector in demonstrator frame**

**- Status: all core and segment signals ok.**

**ATC2 @ Legnaro**

**Detectors: A003, B003, C005**

**- Detector in demonstrator frame**

**- Status: all core and segment signals ok.**

**ATC3 @ Legnaro**

**Detectors: A002, B005, C001**

**- Detector in demonstrator frame**

**- Status: all core and segment signals ok.**

**ATC4 @ Legnaro**

**Detectors: A001, B002, C002**

**- Detector in demonstrator frame**

**- Status: all core and segment signals ok in January 2011, now major leakage currents in two crystals.**

**ATC5 @ IKP**

**Detectors: A004, B007, C007**

**- B007 segment F5 broken**

**- C007 is ok, had a leakage current problem, working after baking for 12 hours**

**ATC6:**

**Hardware (cryostat and preamplifiers) delivered and electronic tested at IKP**

**ATC7:**

**Hardware (cryostat and preamplifiers) delivered and electronic tested at IKP**

**ATC8:**

**Hardware (cryostat, dewar, no preamplifiers) at CTT**

**Three Accepted article on AGATA cluster detectors:**

Article title: Space charge reconstruction in highly segmented HPGe detectors through capacitance-voltage

measurements

Journal title: Nuclear Inst. and Methods in Physics Research, A

Article title: Determination of space charge distributions in highly segmented large volume HPGe detectors from capacitance-voltage measurements

Journal title: Nuclear Inst. and Methods in Physics Research, A

Article title: The liquid nitrogen fill level meter for the AGATA triple cluster detector

Journal title: Nuclear Inst. and Methods in Physics Research, A

***Discussion on Deliveries***

Several detectors delivered from the end of November: A008, A009, B007 and B009 (CAT to be started). This increases the number of delivered detectors up to 24, but the number of working detectors does not increase, the number of really working capsules is always ~15.

Issues with the fragility of the detectors:

* annealing caused problems in one segment: observed instability in leakage current
* for one “C” detector showing leakage current Canberra recommended to perform a detector annealing and did help. It seems the passivation between segments sometimes has problems.
* Several “B” detectors had leakage current

B009 CAT ongoing it seems that the only problem is the resolution of one frontal segment that is 0.1 keV higher than the specifications.

***ATCs***

ATC5 can be now fully completed.

The first 4 ATCs were fully working at LNL after Christmas not a single channel was missing and none was showing neutron-damage. Recently problems appeared with ATC4 and two detectors have to be checked and might be repaired.

***Cooperation with Canberra***

Visit of J. Eberth to Canberra on January 26. Canberra claim to have identified two problems   
 in the capsules:

* The new AGATA detectors show strong low-frequency microphonics which Canberra believes are due to vibrations of the capsule walls
* Failures of capsules which have been delivered are mainly due to leakage current of isolated segments which might be due to non-perfect passivation of the segmentation lines rather than damaged segment contacts

Related to the first point, Canberra believes that they improved the segmentation they are not so worried.

On the second issue the problem might come partly from their cryostats. It has been proposed to deliver such a bad capsule just for test to Cologne.

Nevertheless Canberra again displayed a disappointing behaviour, they would like to deliver a detector that did not pass the FAT and check whether it would be accepted during the CAT.

Canberra is also discussing with Juelich to go back to the capsule fabrication. J.Eberth has contacted our old partners in the ZAT Juelich and they promised to give us full support.

**Actions: P.R.** to prepare a list of outstanding problems and to send to P.J.Nolan. It will be used to prepare a letter to Canberra.

**Note:** P.Reiter requests the AMB to check the possibility to have funds to support personnel costs of people doing the work on detectors.

1. **Front end processing**

Installation of the ATC5 electronics is being performed as mentioned in the LNL Status section. All the ATC5 electronics is now ready and working tests have been made with the ATC1 detector and the spectra seems to satisfy the specifications.

The situation with the Carriers is the following:

in addition of the 24 good carriers used for the first four clusters. Seven extra at LNL two of them with known problems and three of them not tested yet. Three working cards from the CSNSM test bench have been delivered to LNL for the ATC5 FEE installation. Other 4 non working cards have been shipped as well to LNL. There is a minimum of 6 Carrier card to be repaired if possible. There is a commitment to return repaired fully working Carriers to CSNSM to recover the test bench as soon as possible.

The production for the GSI phase is in the following status:

Digitizers: assembly started in January 2011. Delivery is expected in March 2011.

Segment mezzanines:

the company will order the components. The extra charge for purchasing is still being negotiated. PCB production has started (boards due in 6-8 weeks) the component deliveries are estimated at 22 weeks, with a further 4 weeks for assembly. Cards will be functionally tested by the manufacturer prior to delivery. Commissioning in CSNSM is scheduled for September 2011.

Core mezzanines:

a batch of 30 mezzanines has been ordered with prototype due in early February 2011.

Carriers:

The carrier V4 is an upgrade of carrier V3 produced by IPN. M.Bellato made the pcb modification and 20 pcb were produced and 6 cards were assembled. CSNSM received all the CAD files of the carrier V4 from Marco in October 2010 to proceed with the order to Emelec for assembly and test the 24 carrier cards. Several actions are required to prepare the industrial production procedure:

* to prepare the industrial component list, with all component references
* design verification on the V4 pcb and an equipped card (pcb and one equipped card to be provided)
* definition of the Acceptance Test Procedure this procedure is to be delivered by the CSNSM personnel (F. Morbiducci)
* assembly oven specification definition: checking the temperature of the components during soldering with a dummy or broken card.

The final target is to have the carriers produced by September 2011.

TCLK cards: will be produced by CSNSM within Feb 2011

VME GTS Carriers and LINCO Readout Modules: Production under discussion

VHDL1 commissioning: time required 3 weeks. The commissioning time to be allocated when the LNL experimental schedule will be known.

**Action E.F.** to keep the CSNSM group informed on the program for commissioning and   
 experiments

1. **Data acquisition**

Last EVO meeting on Feb. 15th.

The upgrade of the Slow control in ongoing.

***Narval and Narval@GSI:***

Loop feature installed in the Narval script system.

Last GNAT version installed at GSI together with all the needed libs to compile

Narval which is now compiled.There is already working a Narval installation at GSI.

New definition of the data format for tracking has been developed to include all the interaction points. Frames with more information are required.

There is a new version of Debian Linux and is being discussed the possibility to upgrade the systems.

**Replay Data Center:**

investigations are underway at CSNSM to check if the “Cloud” System computing could be a good option. The system exist at LAL (Orsay). The Implementation of Narval on the Cloud should be straightforward.

Wiki and Web page or the W.G.: excellent work done by Ch. Theisen and E. Legay

**Actions:** investigate the possibility to acquire new network switches requested with switch-off capabilities

**Action: A.K. H.-J. W.** to organize meetings at GSI for the DAQ infrastructure with the AGATA

and local responsible people.

**Meetings and Visits**

It will be organize a visit of E. Legay to LNL to solve the problems with the Digitizers scope capabilities control.

Possible visit to evaluate/perform the installation of the new Debian version in the AGATA DAQ farm.

1. **Simulations and Commissioning**

The working group is already active V.C. of the W.G. responsible persons on 9th Feb.

Simulations: M.Labiche has contacted the coordinators of the proposals to check the simulations  
 to be done and if they require help from the W.G.

V.C. with the spokespersons will be done on 21st Feb..

Discussions on the necessity to proceed with the simulations of the GANIL setup.

A document, mainly with the results of the simulations performed for the GSI setup   
 by C.Domingo-Pardo, has been distributed to all spokespersons.

Commissioning: C.Domingo-Pardo, the task leader discussed the necessity to have a commissioning run for AGATA. That should be added to the beam-time request. The dead-line for the proposal submission is not yet announced but the study of possible experiments and the coordination with the responsible persons for the physics campaign has to be done.

1. **Data Analysis and Tracking**

***PSA***

Mid March V.C. of PSA will be organized.

Much progress on optimizing PSA: new calculated basis to be used in Narval, e.g. F.Crespi in collaboration with the Uni. Manchester group have calculated a new basis with the derivative Cross-Talk included.

P. Desesquelles and J.Ljungvall are as well working in a new data base starting from the J.Ljungvall calculated signals.

***Data Analysis & Tracking***

O. Stezowski and A.Lopez-Mertens agree to co-chair the team that will cover the tasks of tracking and data analysis. The main issue now with the tracking is to solve the clusterization problem of the events

***GRID***

New document on the AGATA GRID architecture produced by (A.Kaci and V.Mendes) has been distributed. They have reported as well on the possibilities to use a catalogue servers with all hierarchy of access permits.

The Narval emulator is as well modified to work on the GRID, this gives access to possibility to check PSA algorithms and data basis with already existing data.

1. **Infrastructure**

Last VC on 02 Feb, 2011

AXIS/LV:

Patch box filter tested in Legnaro, performance in terms of resolution/noise comparable with previous generation filters (no appreciable difference). Waiting for more extensive report by Dino Bazzacco.

Several LV modules delivered to Saclay, some to be shipped to LNL where 5 full crates are available (but no spares)

Saclay proposes to refurbish the prototype crate and have the latest features implemented; this would cost ~4.5k€ which should be compared with the cost of a full crate (more than 10k€). The proposal seems reasonable, AMB to decide on this issue.

HV:

Document circulated by Saclay concerning development plan for the production of new reliable HV boxes. Critical information still missing (costs, needed manpower, timescale). Reworking the HV boxes might imply reworking the cryostats as well. The proposed solution should be compared with a “conventional” solution, eg one based on a CAEN system + shutdown boxes. From a preliminary evaluation of the timescale it seems clear that even in the most optimistic cases the GSI campaign will have to start with a conventional system.

Bias shutdown: LNL is considering the production of a simple/cheap shutdown box for the LNL phase only. This box will provide some of the functionalities provided by the undelivered GSI-VCC. Might require changes in the PLC software (foreseen however for the GANIL phase). Waiting for Saclay to comment on the PLC issue.

Autofill:

No news from GSI (no participation in the last team meetings)

Grounding:

No news.

Next meeting: end of February/beginning of March (doodling)

1. **Ancillary detectors and ancillary detector integration**

“Last minute” idea of using LuSiA in Legnaro; judged not feasible for the likely period in which the experiment would run.

Action on providing the AGAVA tree for GSI: still outstanding, waiting for completion of the set-up of the electronics for ATC5.

**7. The Proposal for the AGATA double Clusters**

The present version of the text discussed. Still the case for the SPIRAL2 is weak, the only point is for a full AGATA configuration.

Noticed a problem with the double cluster ring efficiency that is not understood. There is an apparent inconsistency between the calculations shown in different presentations and the tables of Annex 1.

**Action: A.G.** to clear up these issues with C.Domingo-Pardo

**Done,** the contradiction is only apparent, one cannot deduce ring efficiencies subtracting the different configuration efficiencies, we are dealing with a tracking array. In the AGATA nominal position 10ATC+5A2C have approximately an efficiency of 11.0% but this is bigger than the sum of the efficiency of 5A2C i.e. 2.6% and 10ATC i.e. 6.5%. At the nominal distance every capsule in an ATC has about 0.22% efficiency and in an A2C about 0.26% efficiency. The presence of both rings increases the total efficiency as well about an extra 20%.

The paper should be modify to discuss the optimal distance for the GSI campaign and comment the cost in beam-time if one does not have the double clusters.

**8. AGATA project definition**

New preliminary version of the early phase 1 project definition discussed. All costs are to be included, Mechanics (70 k£ from the UK), Digitizers, etc.

Several urgent items with high costs not allocated.

Action JS to ask J.Strachan to estimate the full cost of the mechanics.

H.-J.Wollersheim inquired about the maximum number of capsules that possibly can be installed at GSI during the full campaign 2012-2013. It is more likely the maximum number, if all goes right, could include the 25 expected for the beginning of the campaign and two extra ATC (6 channels) making a total of 31 capsules.

**Action A.G. G.D.**: distribute new version within early March

**9. The GSI Phase**

A document (see Annex 1) on the internal organization of the GSI personnel for the campaign has been presented. While the phrasing will require still some work, the goal of the document is to define the responsibilities of the local GSI team and the interaction of the AGATA working groups with the GSI group. The AGATA working groups should always inform the GSI conveners to get the installation, maintenance and operation scheduled. Previous experience from RISING/PreSPEC experiments shows that a technical coordination between the different sub-systems during the experiment preparation and running is needed. This is presently done in the pre-AGATA PreSPEC experiments by two local physicists (Plamen Boutachkov, Stephane Pietri) and H.J.W suggests to continue with a similar practise. The full AMB agreed on the necessity of the organization described in the document and on thje responsibility of GSI on coordinating the activities in the Host Laboratory.

The Data Transfer scheme has been now accepted by all parts as fulfilling all the data storage as well as monitoring necessities.

It was stated that there will be very little (no) access to S4 area outside the programmed 3 months for installation.

**Action: All** to produce a plan for moving and installation of the AGATA array at GSI. A clear schedule should be produced as soon as possible.

The GSI local group asked the AGATA collaboration to explore the possibility to use the local filling system, already commissioned and with the GSI security acceptance done. The AMB members reminded that AGATA has not an independent AutoFill system but one integrated in the Detector Support System (DSS), nevertheless, it has been suggested a meeting between AGATA and GSI responsible to discuss all the implications and to agree on a final decision.

**Action: E.F.** to contact the DSS/Infrastructure W.G. and organize a meeting to discuss the DSS and AutoFill issues in connection with the installation at GSI.

***Miniball detectors.***

The Miniball collaboration will continue their experimental programme during 2012 at CERN, the detectors will be only available during the winter CERN shutdown. It is quite unlikely we will have the possibility to concentrate the experimental activity on AGATA in the last block to profit from the coupling with Miniball.

**10. Running costs news**

Summary: Germany 25 k€

IN2P3 15 k€

CEA (to be approved)

GANIL 0 k€

INFN 65 k€

Poland 7 k€

Sweden 12 k€

U.K. 19,4 k€

Turkey 40 k€ (held at GSI)

(total ~ 183,4 k€ with a target of 201k€ from the Working Document)

**11. Discussion on the next (11th) AGATA week**

Due to the vicinity of the experimental campaign, we would explore the possibility to have the AGATA week in Darmstadt, possibly from September 5th to 9th 2011.

**Action: A.G.** to check the possibility to have the AGATA week hosted at TU-Darmstadt

**12. AGATA Technical Publication, TDR**

Few notes on the status of the AGATA technical publication:

-the hardware description need to be more integrated, presently just unconnected texts.

-Data Analysis section very short

-missing sections on PSA, Commissioning, Detector Characterization, etc...

-no figures in many sections. Mentioned that figures should be schematic or block diagrams more   
 than just pictures of electronic modules

-title: AGATA

**Action: All** Provide updated list of authors (starting with TDR list).

**Action**: **J.S** agrees on checking the list as well as the text

**13. AOB**

**14. Date and location of next meeting and dates of phone conferences.**

Next AMB meeting 11th April at GSI (H.-J. W. to organize)

**Phone conferences** / Lyon system (GD to organise)

8th March 2011, 10.00 CET

25th March 2011, 10.00 CET

ANEXX 1

**Internal organization of the PRESPEC-AGATA Campaign at GSI**

**Draft JG 10.2.11**

For the preparation and operation of the AGATA-PRESPEC project at GSI the following organizational structure is foreseen. There is work packages (WP) defined to cover all aspects of the project where GSI staff is involved. The following rules will be applied:

* Only postdocs and staff members shall have responsibility for work packages (WP).
* Everyone of this group shall be informed about all aspects of the project to a level allowing him/her to understand the principles but not necessarily all the details.
* For each WP at least two members shall know the full details to be able to replace each other when necessary.
* Everybody is responsible to keep the others informed accordingly.

For each WP responsible members have been nominated as shown in fig. 1 below. The nominated convenors are indicated in bold. The convenors will act as formal contact person for external collaborators, i.e. AGATA working groups, and convene WP meetings. Leadership is shared between the responsible members. In case of particular issues overlapping between WPs responsibility is shared respectively. Depending on the amount of work and the expertise required other staff members, postdocs, students and external staff may be adopted to a WP. Simulation is currently not included in the list of WPs, assuming that Cesar Domingo will be available if necessary.

The PRESPEC Project Manager (PM), H.J. Wollersheim, is responsible for the execution of the project at GSI. The WP responsibles report to the PM. The PM reports to the PRESPEC Steering Committee. The PM is full member of the AGATA Management Board (AMB), representing GSI as host laboratory as well as the PRESPEC project. The PM may delegate on his discretion WP responsibles to replace him at AMB meetings.

The PM and the WP responsibles aim for technical and organisational solutions in accordance with the needs and possibilities of AGATA and PRESPEC in order to find agreement and support of the related teams of both projects. It is thus generally assumed that everyone involved will respect and welcome the particular experience and expertise of their colleagues. The local GSI group is responsible for the installation and operation of the AGATA-PRESPEC system at GSI. For example safety and radiation issues, installation and operation planning, local infrastructure issues, standard rules and procedures at GSI, etc. are ruled by the local group. The AMB is responsible for setting-up, operating and maintaining the genuine AGATA system at GSI. If for a particular issue responsibility and effort taking is not obvious and agreed by locals and externals, amicable agreement will be sought.



Analysis/Online

**EM**, FA, PB

Test, Operation

**All**

Logistics/Docu

**FA**, EM

Electronics

**HS**, SP, IK

Infrastructure

**IK**, HS

Mechanics

**PB**, IK

**Fig. 1:** Internal GSI working packages for the AGATA-PRESPEC project. Responsible members of the WPs are F. Ameil (FA), P. Boutachkov (PB), I. Kojouharov (IK), N. Kurz (NK), E. Merchan (EM), S. Pietri (SP), H. Schaffner (HS). Contact persons are indicated in bold.