



19th AGATA Week
3rd Position Sensitive Germanium Detectors and applications Workshop
IPHC Strasbourg, 10th – 14th September 2018

~ PROGRAMME ~

14:00 *Start of the PSeGe Workshop*

10/09/2018 Monday Afternoon - PSeGe 1 - Amphi Grünewald	
14:00 – 14:05	Welcome from IPHC director (R. Barillon)
14:05 – 14:10	Welcome from IPHC-Subatomique Department DRS responsible (S. Courtin)
14:10 – 14:30	Welcome and introduction to the PSeGe JRA (A.Gadea, IFIC-Valencia)
14:30 – 14:50	Passivation and segmentation developments at LNL (D.R.Napoli, INFN-LNL)
14:50 – 15:10	COMSOL simulations of HpGe detectors with multiple contact (S.Bertoldo, IFIC-Valencia and INFN-LNL)
15:10 – 15:30	Novel contacts in HPGe for gamma-ray detectors (W.Raniero, INFN-LNL)

15:30 -16:00 *Coffee Break + photograph of the PSeGe workshop*

10/09/2018 Monday Afternoon - PSeGe 2 - Amphi Grünewald	
16:00 – 16:30	Cryostat development at IKP (P.Reiter, IKP-Cologne)
16:30 – 17:00	Recent Ge detector developments at GSI (J.Gerl, GSI)
17:00 – 17:30	Innovative HPGe detectors for research applications (V. Marian, MIRION)
17:30 – 18:00	Development of Ge Detectors at ORTEC (G. Geurkov, ORTEC)

11/09/2018 Tuesday Morning - PSeGe 3 - Amphi Grünewald	
09:00 – 09:20	Gamma-ray imaging with coaxial highly segment HPGe detector employing ADL (R. Hirsch, IKP-Cologne)
09:20 – 10:00	Radiation mapping applications (A.Boston, University of Liverpool)
10:00 – 10:30	Discussion on Imaging applications and detector technologies

10:30 -11:00 *Coffee Break*

11/09/2018 Tuesday Morning - PSeGe 4 - Amphi Grünewald	
11:00 – 11:30	Discussion and General Assembly of the PSeGe Collaboration
11:30 – 12:30	ENSAR-NEXT: Discussion and ideas on a possible JRA on Position Sensitive Germanium Detectors

12:30 -14:00 *Lunch break*

14:00 *Start of the AGATA week*

11/09/2018 Tuesday Afternoon - Amphi Grünewald	
14:00 – 14:05	Welcome from IPHC
14:05 – 14:10	Introduction to the AGATA week (A.Gadea, IFIC-Valencia)

Introductory talks - Amphi Grünewald	
14:10 – 14:35	Status of the AGATA project (A.Gadea, IFIC-Valencia)
14:35 – 14:50	AGATA Steering Committee Report (P.Reiter, IKP-Cologne)
14:50 – 15:10	AGATA at LNL experiments status report (F.Recchia, INFN and University of Padova)
15:10 – 15:30	AGATA at GSI experiments status report (J.Gerl, GSI)

15:30 -16:00 *Coffee Break*

16:00 – 16:30	AGATA at GANIL status report (E.Clément, GANIL)
Detector Module and Infrastructure (Joined session) - Amphi Grünewald	
16:30 – 16:45	Status and overview of the AGATA detectors and cryostats (H.Hess, IKP Cologne)
16:45 – 17:00	Report from the detector lab in Saclay (M. Zielinska, IRFU/CEA Saclay)
17:00 – 17:15	IPHC detector lab status report (M.-H. Sigward, IPHC-Strasbourg)
17:15 – 17:30	CAT tests and status at Liverpool (C. Unsworth / A. Boston, Uni. Liverpool)

19:30 *Workshop dinner au Gurtlerhoft*

**12/09/2018 Wednesday Morning -
Amphi Grünewald
Detector Module and Infrastructure (Joined
session)**

9:00 – 9:25	Status of the Detector Infrastructures (R. Menegazzo, INFN-Padova)
9:25 – 9:45	LVPS and Autofill upgrades (M. Zielinska, IRFU/CEA Saclay)
9:45 – 10:10	AGATA mechanical structure over 1π (A. Grant, STFC – Daresbury)
10:10 – 10:30	Discussion

10:30 -11:00 Coffee Break

Performance, Commissioning Simulation

11:00 – 11:10	Commissioning Introduction (Ph. John, TU-Darmstadt)
11:10 – 11:25	Overview of N-Z campaign (G. De France, GANIL)
11:25 – 11:40	Commissioning ideas for MUGAST campaign (D. Mengoni, INFN/Uni.- Padova)
11:40 – 12:05	AGATA Simulations Report (M. Labiche, STFC Daresbury)
12:05 – 12:20	Simulation of ²⁵⁴No (A. Lopez Martens, CSNSM-Orsay)

12:30 -14:00 Lunch break

**Wednesday Afternoon - Amphi Grünewald
Performance, Commissioning Simulation**

14:00 – 14:10	AGATA Performance Introduction (J Ljungvall, CSNSM-Orsay)
14:10 – 14:25	Simulations with real. eff. (M. Labiche, STFC Daresbury)
14:25 – 14:40	AGATA+NEDA+DIAMANT Performance (E. Clément, GANIL)
14:40 – 14:55	In-Beam efficiencies of AGATA (R.M. Perez Vidal, IFIC-Valencia) <i>tbc</i>
14:55 – 15:10	Angular correlations with AGATA (R.M. Perez Vidal, IFIC-Valencia) <i>tbc</i>
15:10 – 15:30	Angular correlation discussion

15:30 -16:00 Coffee Break

Parallel Session Wednesday Morning

9:00	

Parallel Session Wednesday Morning

11:00	

Parallel Session Wednesday Afternoon

14:00	

**Wednesday Afternoon - Amphi Grünewald
Data Analysis, tracking**

16:00 – 16:15	Introduction (A. Korichi, CSNSM)
16:15 – 17:00	Status of the Data Analysis (O. Stézowski, IPN-Lyon, J. Dudouet CSNSM and M. Siciliano LNL Legnaro)
17:00 – 17:30	Data re-processing and storage (J. Dudouet, CSNSM)
17:30 – 18:00	Tracking codes developments/improvements and deficiencies (A. Lopez-Martens, CSNSM and T. Lauritsen, ANL) tbc
18:00 – 18:10	Documentation status (A. Korichi, CSNSM)

Parallel Session Wednesday Afternoon

16:00	Infrastructure Team meeting

**13/09/2018 Thursday Morning -
Amphi Grünewald
PSA and Characterization**

9:00 – 9:20	AGATA / GRETINA status report (A. Korichi, CSNSM)
9:20 – 9:35	Development of Novel PSA Algorithms for AGATA (Fraser Holloway, Uni.Liverpool)
9:35 – 9:50	Characterisation Status at IPHC (B. De Canditiis, IPHC Strasbourg)
9:50 – 10:05	Characterisation Status at Liverpool (E. Rintoul, Uni.Liverpool)
10:05 – 10:20	Characterisation Status at Salamanca (B. Quintana, Univ. Salamanca) tbc

10:30 -11:00 Coffee Break + photograph of the AGATA workshop

PSA and Characterization

11:00 – 11:15	Coordination and planning (A.Boston, Uni.Liverpool)
11:15 – 11:20	PSA overview (L. Harkness-Brennan/A. Boston, Uni.Liverpool)
11:20 – 11:45	Online PSA performance (D. Ralet, CSNSM)
11:45 – 12:00	ADL Status report (L. Lewandowski, IKP-Cologne)
12:00 – 12:10	Questions on ADL (B. De Canditiis, IPHC Strasbourg)

12:30 -14:00 Lunch break

**Parallel Session Thursday Morning
Data Flow and Front-End Electronics W.G.**

9:00	EDAQ: Future coming actions for the next campaign (all)
	Current performance and deficiency of the DAQ system
	Feedback from local host (E. Clément, D. Ralet, G. Lallaire)
	New watchers for the data monitoring (AGASpy) (J. Dudouet)
	Report on the status and issues found on the electronics during the last experimental campaign (GANIL)
	Discussion on the future activities of performance measurements
	Discussion on the future activities of performance measurements

**Parallel Session Thursday Morning
Data Flow and Front-End Electronics W.G.
(continue)**

11:00	Communications and discussion on the maintenance of the Phase 0 and early Phase 1 electronics: Issues with the test bench at CSNSM
	Communications and discussion on the maintenance of the Advanced phase 1 electronics: DIGIOPT12 cards, Control Card, GGP's etc...
	Communications and discussion on the production of the new batch of Advanced phase 1 electronics
	Communications and discussion on the NUMEXO2 and software trigger processors
	Communication and Discussion on the R&D on electronics for 2020 Digitizers –DIGIOPT12, Concentrator, Pre-processing –PACE card, Readout – STARE card-, GTS interface, Firmware. Working Document

**Thursday Afternoon -
Amphi Grünewald
Complementary Detectors Session
(including FEE integration)**

14:00 – 14:20	NEDA+DIAMANT: the 2018 campaign (tbd)
14:20 – 14:40	MUGAST: plan for the 2019 campaign (M. Assié, IPN-Orsay)
14:40 – 14:55	VAMOS ++ vacuum mode upgrade (E.Clément, GANIL)
14:55 – 15:10	VAMOS Gas Filled mode: Status (C. Theisen, IRFU/CEA-Saclay)

15:30 -16:00 Coffee Break

**Thursday Afternoon -
Amphi Grünewald
Combined Session Data Flow and Front-
End Electronics**

16:30 – 16:35	Introduction (A.Gadea, IFIC / A.Korichi CSNSM)
16:35 – 16:45	Summary talk on the maintenance of Phase 0 electronics (I.Lazarus, STFC)
16:45 – 16:55	Production and maintenance of Phase 1 electronics (INFN-Padova, Milano, ETSE) who??
16:55 – 17:10	Hardware Trigger Processor status and developments (GANIL) tbd
17:10 – 17:25	Software Trigger Processor status (A. Korichi/J. Dudouet, CSNSM)
17:25 – 17:40	Future Synchronization and Trigger Ideas (INFN-Padova / GANIL) tbd

**Parallel Session Thursday Afternoon –
salle Mondrian
Data Analysis Tracking and Pre-Processing**

14:00	Feedback from people involved in the analysis (R. Perez, M. Siciliano, and others)
	Performance of the data analysis tools and tracking procedures Feedback from the users
	Status of the GRETINA processing data through AGATA tools (O. Stézowski)
	Status of the AGATA data processing through the GRETINA tools (T. Lauritsen)
	Discussion: about the issues that we have with tracking : angular distributions, angular correlations ... etc (A. Lopez-Martens, J. Ljungvall, E. Clément, A. Korichi, T. Lauritsen etc...)
	Discussion: data analysis tools performance for the data replay and analysis (feed-back from the users is needed) (O. Stézowski, D. Ralet and others)

**Parallel Session Thursday Afternoon
PSA and Characterization**

16:00 Data Analysis Tracking and Pre-Processing Parallel Session

**14/09/2018 Friday Morning --
Amphi Grünewald
Combined Session Data Flow and
Front-End Electronics**

9:00 – 9:15	R&D on electronics: Introduction (V.Gonzalez, Uni. Valencia)
9:15 – 9:30	Digitizer Development (tbd on behalf A.Pullia, INFN-Milano)
9:30 – 9:45	Concentrator and Pre-processing Status (J.Collado, ETSE-University of Valencia)
9:45 – 10:00	Ethernet Readout Status (N.Karkour / X.Lafay, CSNSM-Orsay)
10:00 – 10:15	Firmware Status (L.Charles, IPHC-Strasbourg)
10:15 – 10:30	Software, Inspection and visualization (E.Legay CSNSM / I.Lazarus, STFC)

10:30 -11:00 Coffee Break

**Combined Session Data Flow and
Front-End Electronics**

11:00 – 11:30	NARVAL-DCOD developments (A. Korichi, E. Legay CSNSM)
11:30 – 11:50	New watchers for the data monitoring (AGASpy) (J. Dudouet, CSNSM)
11:50 – 12:10	Infrastructure of the DAQ (J. Jacob and P. Le Jeannic, CSNSM)
12:10 – 12:20	Feed-back from local host and users regarding the full DAQ (tbd)
12:20 – 12:30	Performance of the DAQ system (E. Clément, GANIL tbc)
	End of the AGATA Week

12:30 -14:00 Lunch break