



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 - Chair: G. Duchêne	
14:00 – 14:05	Welcome from IPHC director (R. Barillon)
14:05 – 14:10	Welcome from IPHC-Subatomique Department DRS director (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 - Chair: G. Duchêne	
16:00 – 16:30	Cryostat development at IKP. Update of re-usable detector encapsulation (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	New development of Ge Detectors at ORTEC (G. Geurkov, ORTEC)

11/09/2018 Tuesday Morning - PSeGe 3 - Amphi Grünewald - Chair: A. Gadea	
09:00 – 09:20	Gamma-ray imaging with highly segmented coaxial 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 - Chair: A. Gadea	
11:00 – 11:30	Discussion and General Assembly of the PSeGe Collaboration (A. Gadea, IFIC-Valencia)
11:30 – 11:45	ENSAR-NEXT: Discussion and ideas on a possible JRA on Position Sensitive Germanium Detectors (A. Gadea, IFIC-Valencia)
11:45 – 12:30	Closed meeting of the PSeGe Steering Committee

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 - Chair: G. Duchêne	
14:10 – 14:35	Towards AGATA 4π: project status and next phase of AGATA (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 - Chair: P. Reiter	
16:30 – 16:45	Status and overview of the AGATA detectors and cryostats (H. Hess, IKP Cologne)
16:45 – 17:00	Report from the AGATA 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 (A. Boston on behalf of C. Unsworth, Uni. Liverpool)

19:30 Workshop dinner at Gurtlerhoft

**12/09/2018 Wednesday Morning -
Amphi Grünewald
Detector Module and Infrastructure (Joined
session) - Chair: B. Million**

9:00 – 9:25	Status of the Detector Infrastructures – Towards AGATA 4π (R. Menegazzo, INFN-Padova)
9:25 – 9:45	New Autofill and new LVPS (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
Chair: F. Recchia/Ph. John**

11:00 – 11:10	Commissioning of AGATA (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	Report on recent AGATA Simulation activities (M. Labiche, STFC Daresbury)
12:05 – 12:20	Simulations of ²⁵⁴No (A. Lopez Martens, CSNSM-Orsay)

12:30 -14:00 Lunch break

**Wednesday Afternoon - Amphi Grünewald
Performance, Commissioning Simulation
Chair: F. Recchia/J. Ljungvall**

14:00 – 14:10	AGATA Performance Introduction (J Ljungvall, CSNSM-Orsay)
14:10 – 14:25	AGATA simulated efficiency vs measured efficiency (M. Labiche, STFC Daresbury)
14:25 – 14:40	AGATA+NEDA+DIAMANT performances (E.Clément, GANIL)
14:40 – 15:10	In-Beam efficiency and angular correlations with AGATA (J. Ljungvall, CSNSM-Orsay on behalf of R.M. Perez Vidal, IFIC-Valencia)
15:10 – 15:30	Angular correlation discussion (J. Ljungvall, CSNSM-Orsay)

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

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) - Chair: A. Korichi**

16:00 – 16:15	Introduction (A. Korichi, CSNSM-Orsay)
16:15 – 16:40	Data analysis report (O. Stézowski, IPN-Lyon)
16:40 – 17:00	AGATA data analysis – E664 at GANIL (M. Siciliano, LNL Legnaro)
17:00 – 17:30	Data re-processing and storage (J. Dudouet, CSNSM-Orsay)
17:30 – 18:00	Tracking codes developments/improvements and deficiencies OFT improvements (A. Lopez-Martens, CSNSM-Orsay) The GRETINA tracking code (A.Korichi, CSNSM-Orsay on behalf of Lauritsen, ANL)

**13/09/2018 Thursday Morning -
Amphi Grünewald
PSA and Characterization
Chair: A. Boston**

9:00 –	AGATA documentation status
9:10	(A. Korichi, CSNSM-Orsay)
9:10 –	AGATA / GRETINA status report
9:30	(A. Korichi, CSNSM-Orsay)
9:30 –	AGATA-GRETINA developments
9:50	(O. Stezowski IPN-Lyon)
9:50 –	Development of Novel PSA
10:05	Algorithms for AGATA
	(F. Holloway, Uni.Liverpool)
10:05 –	Characterisation Status at IPHC
10:20	(B. De Canditiis, IPHC Strasbourg)

10:20 -11:00 Coffee Break

**PSA and Characterization
Chair: A. Boston**

11:00 –	Characterisation Status at Liverpool and Salamanca
11:40	(A.Boston on behalf of E. Rintoul, Uni.Liverpool and B. Quintana, Univ. Salamanca)
11:40 –	PSA introduction and overview
12:00	(A. Boston on behalf of L. Harkness-Brennan, Uni.Liverpool)
12:00 –	Online PSA performance
12:15	(D. Ralet, CSNSM-Orsay)
12:15 –	ADL Status report and PSA Optimisation
12:30	(L. Lewandowski, IKP-Cologne)
12:30 –	Questions on ADL
12:45	(B. De Canditiis, IPHC Strasbourg)
12:45 –	In-situ experimental basis
12:55	(J. Ljungvall, CSNSM-Orsay)

12:30 -14:00 Lunch break

**Parallel Session Thursday Morning -
Salle Mondrian
Data Flow and Front-End Electronics W.G.
Chairs: A. Korichi / A. Gadea**

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 -
Salle Mondrian
Data Flow and Front-End Electronics W.G.
(continue) Chairs: A. Korichi / A. Gadea**

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)**

Chair: B. Million

14:00 – 14:20	NEDA+DIAMANT: the 2018 campaign (A.Goasduff, INFN and University of Padova)
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**

Chairs: A. Korichi / A. Gadea

16:00 – 16:10	Introduction (A.Gadea, IFIC / A.Korichi CSNSM)
16:10 – 16:20	Maintenance of Phase 0 electronics (I.Lazarus, STFC-Daresbury)
16:20 – 16:35	Production and maintenance of Phase 1 electronics (A.Gadea, IFIC-Valencia on behalf of the AMB)
16:35 – 16:50	Software Trigger Processor status (A. Korichi, CSNSM-Orsay on behalf of X. Grave/E. Legay)
16:50 – 17:10	SMART: a new electronic design (A.Gadea, IFIC-Valencia on behalf of G. Wittwer)
17:10 – 17:30	Future synchronization and trigger ideas (A.Gadea, IFIC-Valencia on behalf of the AMB)

**Parallel Session Thursday Afternoon –
Building 27, 2nd floor, salle Pistache
Data Analysis Tracking and Pre-Processing
Chair: A. Korichi**

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)

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

Chairs: A. Korichi / A. Gadea

9:00 – 9:30	R&D on electronics: Introduction (V.Gonzalez, Uni. Valencia)
9:30 – 9:50	Digitizer Development (A.Gadea on behalf of A.Pullia, INFN-Milano)
9:50 – 10:05	Concentrator and Pre-processing Status (J.Collado, ETSE-University of Valencia)
10:05 – 10:20	Firmware Status (L.Charles, IPHC-Strasbourg)
10:20 – 10:30	AGATA monitoring and inspection (I.Lazarus, STFC-Daresbury)

10:30 -11:00 *Coffee Break*

Combined Session Data Flow and
Front-End Electronics

Chairs: A. Korichi / A. Gadea

11:00 – 11:45	NARVAL-DCOD developments and Infrastructure of the DAQ (A. Korichi on behalf of E. Legay, J. Jacob and P. Le Jeannic CSNSM-Orsay)
11:45 – 12:00	New watchers for the data monitoring (AGASpy) (J. Dudouet, CSNSM-Orsay)
	End of the AGATA Week

12:30 -14:00 *Lunch break*