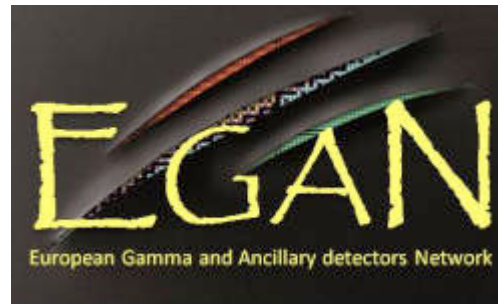


# AGATA Open Meeting



Second Workshop of the European Gamma and  
Ancillary Detectors Network **EGAN 2012**

**Orsay, 25–27 June 2012**

**Annual Open meeting of AGATA  
collaboration**

**27 June 2012**

[http://indico.in2p3.fr//event/egan  
2012](http://indico.in2p3.fr//event/egan2012)

# AGATA experiments LNL

AGATA commissioning 2009–2010

AGATA experiments 2010–2011

## AGATA proposals (~19 runs + 4 test experiments)

- Collectivity at maximum nucleon valency: Investigation of ground-state rotation in the neutron-rich Dy, Er and Yb nuclei J.Ollier, P.-A.Soderstrom, P.H.Regan, J.Simpson, J. Nyberg et al., +PRISMA+DANTE
- Spectroscopy of neutron rich Th and U nuclei after multi-nucleon reactions, P.Reiter et. Al., +PRISMA+DANTE
- Delayed shape transition in  $^{196}\text{Os}$ , V. Modamio, Zs. Podolyak, C. Wheldon, W. Korten et al., + PRISMA
- Characterization of new structures in octupole-deformed radium and thorium nuclei, J.F.Smith et al.,
- Near and sub-barrier transfer reactions in  $^{60}\text{Ni}+^{118}\text{Sn}$ , Montanari et al., PRISMA
- Isospin mixing in  $N=Z$  nucleus  $^{80}\text{Zr}$  at medium temperature, A Giaz, [F. Camera](#) et al., +HECTOR
- Structure beyond the  $N=50$  shell closure in neutron-rich nuclei in the vicinity of  $^{78}\text{Ni}$ : The case of  $N=51$  nuclei, Verney, Duchene, de Angelis et al., +PRISMA+PLUNGER
- Lifetimes of intruder states in  $N \sim 20$  sd-pf-shell neutron-rich nuclei Chapman, Haas et al., +PRISMA+PLUNGER
- RDDS lifetime measurement in the region of the neutron-rich doubly magic  $^{132}\text{Sn}$ : Lifetime of the  $6+$  state in  $^{136}\text{Te}$ . A. Gadea et al., +PRISMA+PLUNGER
- Development of the nuclear structure of neutron-rich isotopes in the  $Z>38$  region populated by heavy-ion induced fission Merchan Ur, Marginean et al., +PRISMA+LaBr3
- Confirmation of the molecular structure of excited bands in  $^{21}\text{Ne}$ , C.Wheldon et al., +TRACE
- Order-to-chaos transition in warm rotating  $^{174}\text{W}$  nuclei, Valeria Vandone, [Silvia Leoni](#) et al., +HELENA
- Lifetime measurements of the neutron-rich Cr isotopes, Valiente-Dobon et al., +PRISMA+PLUNGER
- Neutron-rich nuclei in the vicinity of  $^{208}\text{Pb}$ , Z.Podolyak et al., +PRISMA+DANTE
- Lifetime measurement in neutron-rich Ni, Cu, and Zn isotopes, [Eda Sahin](#), Maria Doncel, Andreas Goergen et al., + PRISMA+PLUNGER
- Lifetime measurement of the 6.792 MeV state in  $^{15}\text{O}$ , [Roberto Menegazzo](#) - Calin Ur et al., + PRISMA+PLUNGER
- Coulomb excitation of the presumably superdeformed band in  $^{42}\text{Ca}$ , Adam Maj, Pawel Napiorkowski, Faisal Azaiez et al., +DANTE
- Precision lifetime study in the neutron-rich  $N=84$  isotone  $^{140}\text{Ba}$  from DSAM measurements following Coulomb-barrier alpha-transfer reactions on a  $^{136}\text{Xe}$ , Leske Joerg et al., Si detector
- Inelastic scattering as a tool to search for highly excited states up to the region of the Giant Quadrupole Resonance Roberto Nicolini, [Angela Bracco](#) +HELENA+TRACE

Test Experiments (tandem beams only)

[F.Haas](#) et al, Lifetime measurements with the AGATA Demonstrator at LNL

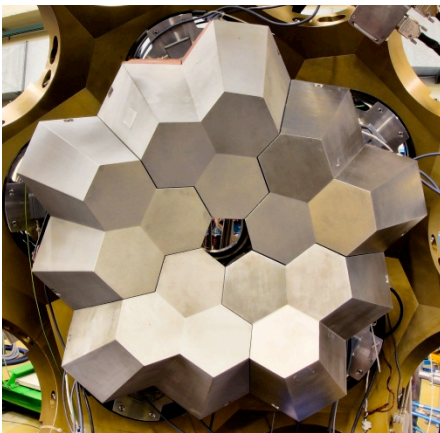
[F.Crespi](#), Response of AGATA to high-energy gamma rays (

[P.G.Bizzeti](#), Polarization capabilities of AGATA

[A. Atac](#),  $^{252}\text{Cf}$  source measurement.

# AGATA's Movements

2010- 2011  
LNL  
5TC

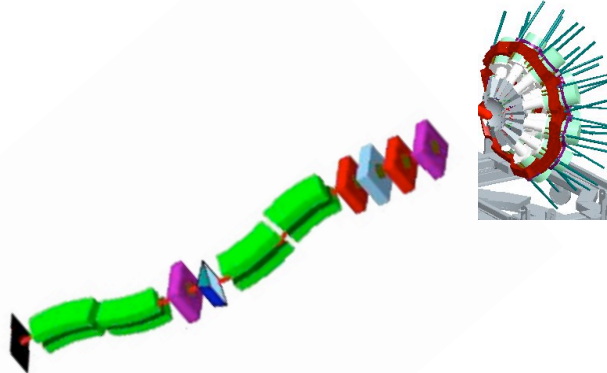


AGATA +PRISMA

Total Eff. ~6%



2012 → GSI/FRS  
5TC+5DC

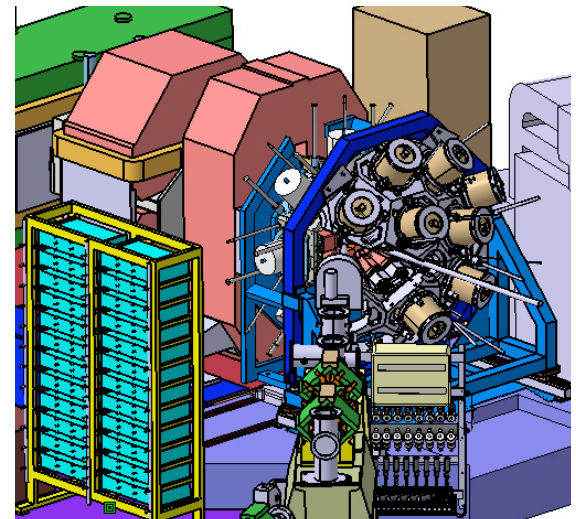


AGATA @ FRS

Total Eff. > 10%



2014 → GANIL/SPIRAL2  
~15TC



AGATA + VAMOS  
+ EXOGAM+

Total Eff. > 20%



# PreSPEC proposals

Conveners: *M. Bentley, W. Korten*

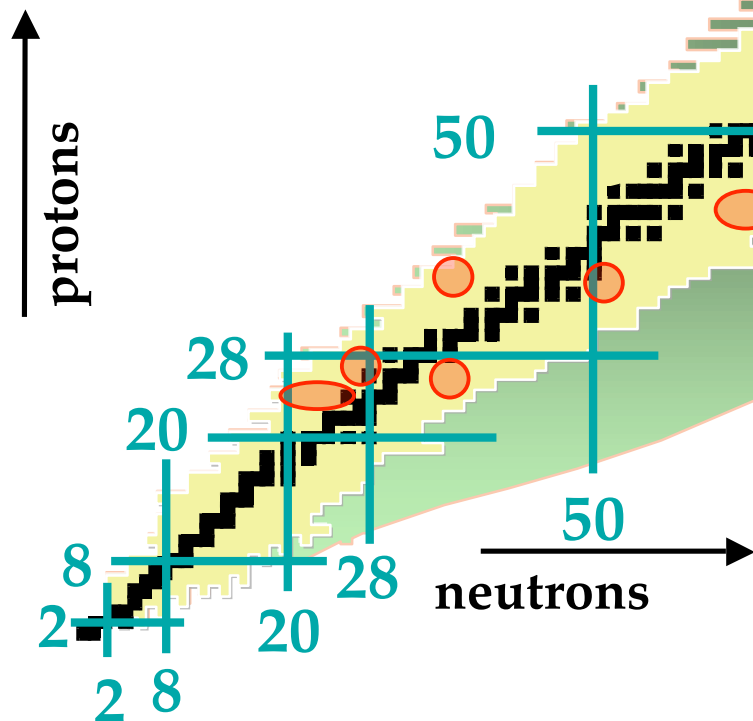
*May 2010: Presentation of 35 LoIs*

*G-PAC (Nov. 2011): 11 proposals (80 days)*

*G-PAC (Fall 2012): ~15 proposals*

*12+ weeks of beam time for AGATA (2012/13)*

*8 (+1 comm) approved, 146 days*



➤ *Evolution of nuclear collectivity*

*$^{70}\text{Kr}$ ,  $^{106,108}\text{Zr}$ ,  $^{202}\text{Pt}$*

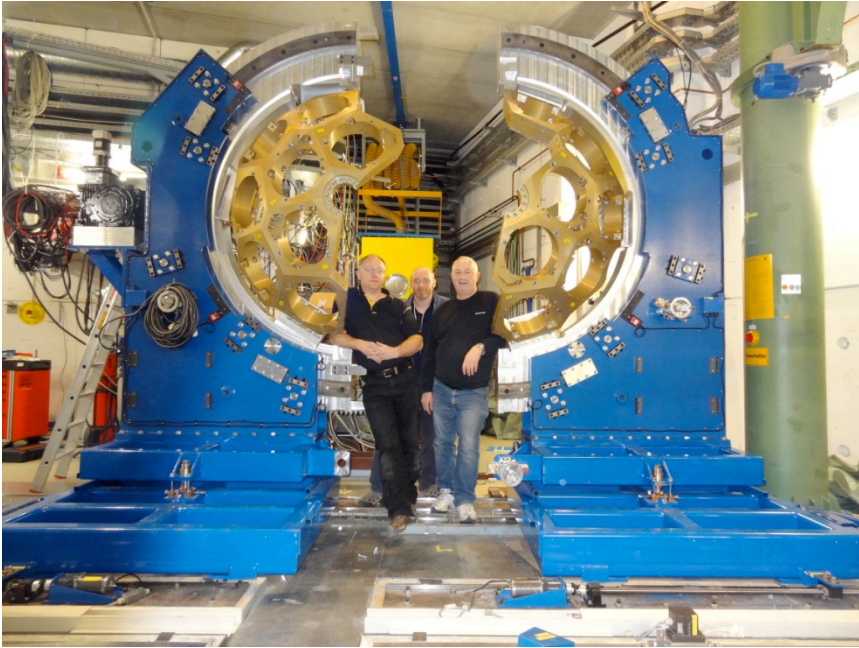
➤ *Evolution of nuclear shell structure :*

*$^{131}\text{In}$*

➤ *Nuclear structure at the  $N=Z$  line :*

*$^{44,46}\text{Cr}$ ,  $^{52}\text{Fe}$*

➤ *Dipole and octupole strength :  $^{64}\text{Fe}$ ,  $^{85}\text{Br}$ ,  $^{132}\text{Sn}$*



## **AGATA @ GSI**

**Initial in-beam commissioning April-June 2012**

**First experiments Sept-November 2012**

**28-29<sup>th</sup> June 2012, ORSAY, EGAN**

**G-PAC late 2012**

**Experiments 2013**

# AGATA ACC

## Web pages

[http://npg.dl.ac.uk/agata\\_acc/index.html](http://npg.dl.ac.uk/agata_acc/index.html)

## Comments

## Additions

## Input

[Skip to main content](#)



## AGATA Collaboration Council

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**Welcome to the home page of the AGATA Collaboration Council**

The AGATA Collaboration Council (ACC), represents all the institutions collaborating under the AGATA project and advises the AGATA Steering Committee (ASC) on scientific matters.

Operation of the ACC as defined by the AGATA Memorandum of Understanding.

**Membership:**  
Comprises one representative from each collaborating institution and the AGATA Spokesperson. The AGATA Spokesperson chairs meetings of the ACC. The Campaign Spokespersons are invited to attend.

**Voting:**  
All members have equal voting rights. The AGATA Spokesperson is excluded from any vote concerning the Spokesperson role.

**Terms of Reference:**  
The ACC is the advisory body of the ASC on scientific matters concerning the AGATA project. The tasks of the ACC are as follows:

1. elects the AGATA spokesperson who will serve for a period of two years.
2. advises the ASC on scientific matters concerning the AGATA project and the research programme through the AGATA Spokesperson.
3. nominates the Campaign Spokesperson for each experiment campaign to the ASC.
4. hold meetings, at least annually, to receive reports from the ASC and AMB on the progress of the Project and from the Campaign Spokespersons on the progress of the research programme.
5. hold an annual open meeting of the AGATA Collaboration to present the status of the Project and to discuss future experiment campaigns.

**Contact**  
Prof John Simpson AGATA Spokesperson and Chair of the ACC



**AGATA @ GSI**

**AGATA@Ganil**

**16 report on experiments at LNL**

**AGATA Collaboration Council Meeting**