

# EGAN

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# European Gamma and Ancillary detectors Network EGAN

a common forum for the high-resolution  
gamma-ray spectroscopy  
and ancillary instrumentation community

# goals

This networking activity aims at the mutual coordination between the research groups involved in high-resolution gamma-ray spectroscopy

- to optimize the use of the valuable resources at the different infrastructures
- to enhance synergies among researchers on a broad European scale, to ensure the sharing, design, construction and maintenance of detectors and associated equipment in a co-ordinated approach.

# specific actions

- promote the coordination of the experimental campaigns at the different infrastructures
- encourage and organize the pooling of distributed equipment in order to enhance synergies between complementary resources for common large-scale projects
- promote collaborative ventures between experimental and theoretical researchers
- promote the collaboration between European laboratories for the transfer of technologies associated to Ge detectors and complementary equipment.

# Coordination with hosting infrastructures

EGAN facilitates the coordination and the mutual exchange of information between the AGATA steering committee and the management of the involved hosting laboratories.

# dissemination and training

The Network will assure the exchange of information and transfer of knowledge by **organizing workshops** and **training courses** addressed to young physicists and engineers and **exchange of technical personnel**.

# the tasks

## Task 1 Coordination of Scientific Activities and Dissemination

- **Scientific Committee** for mutual cooperation and organization of experimental campaigns: *ensure efficiency, innovative and optimum use of the resources. One annual meeting.*
- **Coordination with hosting infrastructures:** Meetings of the AGATA management and the Directors of GSI, GANIL and LNL.

# the tasks

## Task 2 Coordination on Ancillary Instrumentation

### Working Groups:

**WG1:** Cooperation on the use, design and construction of ancillary detectors to maximise the performance and compatibility of the devices optimising the investments.

**WG2:** Cooperation on designing and building the electronics and data acquisition and on the mechanical integration.

**WG3:** Exchange of information on the development of simulation tools



# the tasks

## Task 3 Collaboration Workshops

basic research  
technical developments  
applications

organized on an annual basis in four different countries,  
will allow the whole community to meet together, to present  
scientific results, to strengthen collaborations  
and to start new ventures.

# the tasks

## Task 4      Transfer of knowledge

training courses for new users  
*on biannual basis*

exchange of key personnel  
*to ensure common knowledge  
base in detectors development and  
maintenance*

# Steering Committee and funds distribution

S. Lenzi (U. Padova and INFN) (coordinator)  
Andres Gadea (IFIC-Valencia)(deputy coordinator)  
Magdalena Gorska (GSI)  
Araceli Lopez Martens (IN2P3-Orsay)  
Daniel Napoli (INFN-LNL)  
Paul Nolan (U-Liverpool)

Total funds (4 years) ~ 120 k€

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graph LR; A[Total funds (4 years) ~ 120 k€] --> B[Darmstadt]; A --> C[Liverpool]; A --> D[Orsay]; A --> E[Padova];
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4 workshops  
2 training courses  
exchange personnel  
meetings of the WG  
meetings of the Sci Com.  
meetings of the Lab Dir.

# milestones

## Training Course organized by Uni. Liverpool December 5-9th, 2011

More than 30 young physicists participated to this course on the use of highly segmented germanium detector systems, digital pulse shape analysis and AGATA data analysis. The presentations can be seen and downloaded from the EGAN website or from the training course website: <http://ns.ph.liv.ac.uk/EGAN/>.

## Coordination with hosting infrastructures

First meeting in LNL, 12th November 2010

Second meeting in CNRS, Paris, 19th December 2011

# milestones

EGAN 2011 Workshop was organized in Padova on 27-30th June 2011.

120 participants. The slides/presentations of the different speakers can be downloaded from the EGAN website <http://egan.inl.infn.it/egan2011>

This week

Meetings: Scientific Committee  
Working Groups  
Steering Committee

# participants

The logo for the European Gamma and Ancillary detectors Network (EGAN). It features the letters 'EGAN' in a stylized, yellow, blocky font. The letters are set against a dark background with a grid pattern and a glowing orange and red diagonal line that suggests a detector or particle path.

European Gamma and Ancillary detectors Network

Belgium: KU-Leuven

Bulgaria: U-Sofia, INRNE

Finland: JYFL

France: GANIL, CEA-DSM-DAPNIA Saclay, CSNSM-Orsay,  
IPN-Orsay, IPHC-Strasbourg, IPN-Lyon

Germany: GSI, FZD, IKP, U-Koln, TU-Darmstadt, U-Bonn

Greece: NCSR-Demokritos

Hungary: ATOMKI, Debrecen,

Italy: INFN: LNL, Padova, Milano, Firenze, Napoli

Poland: U-Warsaw, IFJ-Pan, Krakow

Romania: IFIN-HH, Bucharest

Serbia: U-Novı Sad

Spain: IFIC-Valencia, UAM-Madrid, U-Huelva

Sweden: KTH, U-Lund, U-Uppsala

Turkey: U-Ankara, U-Istanbul, U-Nigde

UK: CLRC-Daresbury, U-Liverpool, U-Manchester, U-Surrey, U-York

A smaller version of the EGAN logo, featuring the letters 'EGAN' in yellow against a dark background with a grid and a glowing diagonal line.