

Memorandum of Understanding on a European Gamma-Ray Spectroscopy Pool

1. Preamble

In 1994 a Memorandum of Understanding was signed by Denmark, France, Germany, Italy, Sweden and the United Kingdom initiating the EUROBALL collaboration. This MoU concerned the funding, construction, operation and maintenance of the EUROBALL spectrometer. The EUROBALL spectrometer has operated between 1997 and 2002, first at the Laboratori Nazionali di Legnaro in Italy and later at the Institut de Recherches Subatomiques in Strasbourg, France. The EUROBALL memorandum and hence the EUROBALL collaboration will officially end on 31st December 2002.

2. Purpose

The purpose of this agreement is to establish a joint management of the resources from the EUROBALL spectrometer and other complementary equipment. This agreement is made between the owners of the equipment. The collaborating parties and signatories to this memorandum are listed in annex A.

The collaborating parties agree that the equipment will be made available to the European nuclear physics community for experimental campaigns at accelerator laboratories offering unique new physics opportunities. This agreement will facilitate novel programmes in gamma-ray spectroscopy.

This memorandum is not legally binding.

3. Resources

The resources covered by this agreement comprise all equipment that was financed from the EUROBALL capital:

- the HPGe and BGO detectors, including the inner-ball calorimeter,
- the corresponding electronics and the data acquisition system,
- other infrastructure items

Further instruments included in the resource are

- the Neutron Wall
- the Euclides Si ball

with detectors, electronics and infrastructure items.

All these items will be listed in an addendum to this agreement. Other resources may be added later.

4. Management

The collaborating parties shall form an Owners Committee (OC) with representatives from the countries owning the equipment as follows: two representatives from France, Germany, Italy and the UK, respectively, and one representative from each of Denmark and Sweden. The OC will meet at its own discretion, but not less than once a year. Representatives from the laboratories hosting the equipment may be invited as necessary. The owners committee will elect a chairman and a vice chairman on a bi-annual basis. The chairman will act as contact person for the collaborations requesting use of the resources.

The OC will initiate a call for proposals requesting the use of items from the resource at least once a year. It will organise a collaboration meeting at least once every two years in order to inform the wider European nuclear physics community about the scientific achievements and novel possibilities arising from the use of the equipment. The OC will evaluate the proposals and decide on the deployment of the equipment. It will coordinate the campaigns in order to make the best possible use of the equipment and to maximise the scientific output. The committee will ensure that the principal criterion for the deployment of the resource is scientific merit.

The Owners Committee will ensure that the resource is being adequately maintained by the collaborations utilising it. It is also responsible for the admission of new members bringing other equipment to the collaboration. Further details on the management of the resource, the procedures and the responsibilities of the user collaborations are defined in annex B.

5. Commencement, Duration and Termination

This memorandum takes effect from 1st January, 2003 and initially will be in force for four years. Continuation beyond this time takes place automatically on a bi-annual basis if none of the parties wish to alter any of the terms. Otherwise, any changes will be the subject of negotiations between the signatories. This memorandum can be amended by written mutual agreement.

The following annexes are an integral part of this memorandum of understanding:

- Annex A: List of owning parties and signatories**
- Annex B: Management of the resource**

Annex A

Owning parties:

Denmark:

NBI, Copenhagen

France:

CENBG, Bordeaux; IPN, Lyon; CSNSM, Orsay; IPN, Orsay; CEA-DSM-DAPNIA, Saclay; IReS, Strasbourg

Germany:

Univ. Bonn; GSI, Darmstadt; Univ. Göttingen; Univ. Köln; FZ Rossendorf

Italy:

LNL Legnaro; Univ./INFN Padova; Univ./INFN Milano

Sweden:

Lund University; Royal Institute of Technology, Stockholm; Uppsala University

United Kingdom:

CLRC Daresbury, Univ. Liverpool, Univ. Manchester, Univ. York

Signatories:

Signatories to this memorandum, including the annexes A and B, are for France the CNRS-IN2P3 and CEA-DSM-DAPNIA, for Italy the INFN and for the other countries the parties given above.

Annex B

Management of the resource

The parties agree that the equipment constituting the resource (described in general terms in section 3 and in detail in the addendum) will be used by mutual agreement in campaigns dedicated to specific nuclear physics programmes. The Owners Committee (OC) will be responsible for the management and ensure an efficient use and maintenance of the resources.

The duration of the campaigns should not usually be less than 6 months. They should not exceed two years in the first instance, but will be open for extension beyond that by request. The OC will consider such requests on the basis of the scientific merit and achievements of the campaign up to that point. Resources not committed to such campaigns can be made available for shorter periods.

For every campaign a project manager will be named. An agreement, detailing the duration of the campaign and resource items concerned, will be made between the host laboratory and the OC. This agreement constitutes formal acceptance of responsibility for that equipment. The collaboration performing the campaign must provide the necessary human and financial resources to install and run the instrument, to perform adequate maintenance and to pay for the running costs. The project manager shall provide on request progress reports to the OC. Towards the end of a campaign, a plan for returning the resources in optimum condition must be submitted to the OC.

In order to support the collaborations performing experimental campaigns dedicated laboratories providing a home base for certain parts of the equipment will be defined by the OC. The expertise for these duties is currently distributed within the community and the OC will be responsible to define a working scheme in order to distribute the workload within the collaboration. The home-base laboratories will keep an inventory of the items under their responsibility and provide suitable storage when the equipment is not being used. They will ensure that the equipment is tested at the end of each campaign and organise possible repairs. Any costs incurred in these duties, other than manpower, will be recovered from the collaborations using the resource.

**Memorandum of Understanding on a
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Date and place: _____

Signature: _____

Prof. John Renner Hansen
The Niels Bohr Institute
University of Copenhagen, Denmark

**Memorandum of Understanding on a
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Date and place: _____

Signature: _____

Prof. Jean-Jacques Aubert
CNRS-IN2P3, France

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Signature: _____

Dr. Michel Spiro
CEA-DSM-DAPNIA Saclay, France

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Prof. Dr. Herbert Hübel
University of Bonn, Germany

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Dr. Jürgen Eberth
University of Cologne, Germany

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Prof. Dr. Jan Jolie
University of Cologne, Germany

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Dr. Jürgen Gerl
Gesellschaft für Schwerionenforschung
Darmstadt, Germany

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Prof. Dr. Klaus-Peter Lieb
University of Göttingen, Germany

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Dr. Eckart Grosse
Forschungszentrum Rossendorf, Germany

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Prof. Enzo Iarocci
INFN, Italy

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Prof. Claes Fahlander
Lund University, Sweden

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Prof. Arne Johnson
Royal Institute of Technology, Sweden

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Dr. Johan Nyberg
Uppsala University, Sweden

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Prof. David Warner
CLRC Daresbury, UK

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Prof. Paul Nolan
The University of Liverpool, UK

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Prof. John Durell
The University of Manchester, UK

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Dr. Robert Wadsworth
The University of York, UK