

**Minutes of the Round Table Meeting of the  
Infrastructure Co-operation Network FINUPHY  
(Frontiers in Nuclear Physics)  
held on October 28 – 29, 2002  
in Trento, Italy**

Participants were C. Angulo, Louvain-la-Neuve, Belgium; J. Äystö, NuPECC, Europe; R. Broda, Krakow, Poland; P. Butler, ISOLDE, CERN; J. Cornell, GANIL Caen, France; M. De Poli, Legnaro, Italy; C. Ekström, Uppsala, Sweden; G. Fortuna, Legnaro, Italy; J.P. Grandin, CIRIL Caen, France; D. Grzonka, Jülich, Germany; C. Guaraldo, Frascati, Italy; D. Guillemaud-Mueller, Orsay, France; M.N. Harakeh, Groningen, The Netherlands; W. Henning, GSI Darmstadt, Germany; R. Julin, Jyväskylä, Finland; K. Kilian, Jülich, Germany; G.-E. Körner, NuPECC, Europe; G. Münzenberg, Darmstadt, Germany; L. Nilsson, Uppsala, Sweden; R. Page, Liverpool, UK; D. Pasini, DGXII, Brussels, EU; K. Riisager, Aarhus, Denmark; G. Ryckewaert, Louvain-la-Neuve, Belgium; W. Scobel, Hamburg, Germany; J. Soares, Lisbon, Portugal; P. Van Duppen, ISOLDE, CERN; J. Vervier, Louvain-la-Neuve, Belgium; W. Weise, ECT\*, Europe.

Apologies have been received from B. Fulton, York, UK; D. Goutte, GANIL Caen, France; and D. Müller, GSI Darmstadt, Germany. P. VanDuppen will be replaced by B. Jonson as representative of the ISOLDE collaboration starting next meeting.

**1. Minutes of the previous FINUPHY Round Table meeting at Lisbon, on April 8-9, 2002**

The Minutes are adopted without changes.

**2. Presentations of the Proposals for Joint Research Projects (JRP) for the Integrated Infrastructure Initiative in Nuclear Structure (I3NS) by their respective co-ordinators**

All proposals for I3NS are available on the FINUPHY website ([www.finuphy.org](http://www.finuphy.org)). The six proposals marked with an asterisk on page 6 of Appendix 1 have already been presented in Padova on September 23, 2002, in connection with the conference on nuclear structure NS2002.

Presentations are given by K. Kilian, D. Habs, P. Thirolf, K. Riisager, N. Severijns, H. Savajols, P. Butler, G. Münzenberg, P. Van Duppen, O. Kester, Y. Blumenfeld, A. Girard, A. Villari, and E. Grosse.

The additional information provided in the presentations will be added to the proposals on the FINUPHY website.

### 3. Report on the work of the Writing Committee of the I3NS

At the last FINUPHY meeting in Lisbon on April 8-9, 2002, a Writing Committee for a proposal for an Integrated Infrastructure Initiative in Nuclear Structure (I3NS) was nominated; the members are R. Broda, G. Fortuna, B. Fulton, D. Goutte, W. Henning, and J. Vervier.

J. Vervier reports on the progress of their work; copies of his transparencies are available as Appendix 1 on the FINUPHY website.

The proposed Management Scheme (see page 2-4 of Appendix 1) is adopted; in detail the concept is as follows:

The Participants Council (PC) should consist of one representative per participating Research Infrastructure (RI), one participant per Joint Research Project (JRP) who is not member of an RI and one representative per network, meeting once per year.

The Scientific Advisory Committee who should advise on the programme and assess the progress should consist of three independent experts not coming from Europe and three representatives from the users to be chosen by NuPECC. The NuPECC Members are now asked to provide a ranking for the six members out of the following twelve names: J. Nolan (Argonne), R. Casten (Yale), I. Tanihata (RIKEN), A. Shotter (TRIUMF), A. Roy (New Delhi) and J. Deutsch (Louvain-la-Neuve, as an exception) for the first three, R. Krücken (München), A. Olmi (Firenze), D. Frekers (Münster), Ph. Woods (Edinburgh), A. Maj (Cracow), and M. Freer (Birmingham) for the second three.

The members of the Management Board, two representatives from the RI, two from the JRP, two users + the Project Co-ordinator and the Financial Assistant, should be elected by the PC and have a two-year turn-over except for the Project Coordinator and the Financial Assistant.

Calls for the Project Co-ordinator and the Managing Institution should be placed as soon as possible on the NuPECC and FINUPHY websites.

The RI participating are given on page 5 of Appendix 1; their budget request in the proposal is envisaged to be 14 M€ as proposed, whereas the budget for the JRP should be reduced to about 20 M€. About 2 M€ should be envisaged for “networking”, including the Management costs.

The Writing Committee together with the present and future Chairmen of NuPECC, J. Äystö and M.N. Harakeh, will look into the proposals for JRP, redirect those who refer to “design studies”, group similar ones and thus reduce the budget requested. The group will meet right after the next NuPECC meeting in Mainz on December 6 and 7, 2002.

#### 4.) Information from the European Commission

D. Pasini points out that his presentation was prepared for the training of “contact points”, and is therefore not specific for Integrated Infrastructure Initiatives (I3). Copies of his transparencies are given in Appendix 2.

The present timetable envisages the first call for I3 to go out on December 17, 2002, thus the deadline for proposals being March 15, 2003 (the latest news suggest April 15, 2003). There will be 190 M€ in the first call, and 60 M€ in a second call. In the contract for I3, only the total sum will appear; the distribution will be part of the “consortium agreement”.

D. Pasini does not foresee any major changes in the “guide for applicants” compared to the version that was available in May.

#### 5. Information from the European Research Infrastructures

W. Weise pointed out that ECT\*, as part of the I3NS framework, would play a role as bridge between the planned I3 proposals on nuclear structure and hadron physics; copies ... Appendix 3.

He reported on the upcoming ECT\* Advanced Training Programme on "Nuclear Structure" (June - October 2003). It was proposed that the lecture series of this programme should be documented and possibly published as ECT\* Lecture Notes.

#### 6. News from NuPECC

Copies of the presentation given by J. Äystö are enclosed in Appendix 4.

#### 7.) Joint Scientific and Technological Activities and Studies of FINUPHY

##### *7.1.) A General Science View of the Future Directions and Goals of Nuclear Physics*

J. Vervier presents the transparency prepared by B. Fulton whose presence was prevented by the storm over central Europe, copy in Appendix 5

##### *7.2.) Interdisciplinary Use of Nuclear Physics Research Infrastructures*

The presentation is given by J. Cornell; transparencies in Appendix 6.

##### *7.3.) Heavy and Superheavy Elements*

J. Vervier reads G. Münzenberg's statement, who had to leave earlier:

- a) The project “CHEMSEP” (a separator for SHE chemistry) is continuously supported and progressing.
- b) The I3NS - EOI “SHE” should be supported from this budget in order to improve the proposal and perform additional calculations.

#### *7.4.) Instrumentation for RNB Facilities*

The transparencies of the presentation by R. Julin are enclosed in Appendix 7.

#### *7.5.) High-Resolution Multi-Photon and Electron-Pair Detection Systems*

M.N. Harakeh reports that the workshop planned for September was postponed, thus a presentation makes only sense after the new date.

#### 8.) Opinions and Suggestions from the Users of Research Infrastructures

J. Soares expresses his appreciation for the now easier access to RI. This should be enlarged to other communities, as is being done within the “Interdisciplinary Use” initiative in FINUPHY.

W. Scobel inquires whether a user from Ukraine can be financed within the “access” programme; this is possible if the group leader for the corresponding experiment comes from a member state.

#### 9.) Miscellaneous

Reports on ongoing activities for future infrastructures should be part of the agenda for the Round Table meetings. Therefore, EURISOL and the New GSI Facility should be reported on at the next meeting.

J. Vervier received a letter from C. Wyss, expressing the interest of CERN to participate in design studies and future accelerator developments. The letter is enclosed as Appendix 8.

Less than half of the budget has been spent up to now; the next cost statement is due for the period October 1, 2001 – September 30, 2002. Forms can be found on the FINUPHY website.

Each meeting should get a code letter on the FINUPHY website which then can be referred to in travel claims.

#### 7.) Date and Place of the Next Round Table Meeting of FINUPHY

The next Round Table meeting of FINUPHY will take place on February 27 / 28, 2003, in Catania.

Garching, November 15, 2002  
Gabriele-Elisabeth Körner