

The East-West-Outreach Nuclear Physics Network - EWON

- A networking activity of EURONS I3 -



Mapping Studies Questionnaire

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PART A:

GENERAL INFORMATION ABOUT THE INSTITUTION

(Not more than 1 page for fields A.1- A.19)

A.1	Name:	
A.2	Location:	(Country/City)
A.3	Type:	(see options [1]-[7] below)
A.4	Postal Address:	
A.5	URL-address	

A.6	Director/Head	
A.7	Phone	
A.8	Fax	
A.9	Email	

A.10	Contact person	
A.11	Position	
A.12	Phone	
A.13	Fax	
A.14	Email	

Scientist filling this questionnaire:

A.15	Name	
A.16	Position	
A.17	Phone	
A.18	Fax	
A.19	Email	

Name of the scientist representing your institution in EWON

A.20	
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- [1] Institute / Department of a University
- [2] Institute / Department of a National Research Organization distributed in different sites.
- [3] Institute / Department of a National Research Center
- [4] Independent laboratory of a University
- [5] Independent laboratory of a National Research Organization distributed in different sites.
- [6] Independent laboratory of a National Research Center
- [7] Other (please specify)

A.21 **SCIENTIFIC PROFILE:** Give a brief description of the scientific profile of your institution: Indicate the major research interests of the groups. (max ½ page)

e.g

Main fields of research: Nuclear Physics and High Energy Physics

Nuclear Physics Activities : Nuclear Astrophysics and Neutron physics.

Nuclear Astrophysics: Experimental and theoretical studies of capture reactions relevant to the nucleosynthetic p process.

Neutron Physics: Neutron-induced reactions of importance in ADS systems and the nucleosynthetic s process

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THIS PART SHOULD BE AS COMPACT AS POSSIBLE IN ORDER TO BE USED IN AN ANIMATED POWERPOINT PRESENTATION

A.22 **BUDGET:** Indicate the average annual budget of your institution. What is the average budget fraction (%) for a) salaries, b) operational costs and c) nuclear physics projects? Especially for case c): indicate the ratios: i) national to EC funds, ii) salaries/total budget. If you are hosting a nuclear physics lab (e.g. an accelerator facility), what is the fraction of the operational costs of this lab with respect to total operational costs of your institution. (max ¼ page)

A.23 **FUNDING SYSTEM:** Describe the main sources of funding (e.g., is the funding flowing directly to your institution from a national funding agency? If yes, is this realized after evaluation of an application?. If not, are you funded indirectly through some “higher” level decision body, like the rector council or the dean?). Indicate the fraction (%) of funding from competitive European programs as well as the fraction of funding (%) retained as management costs from your institution or the central administration. (max ½ page)

A.24 Indicate any participation in key EC R&D projects related to Large (European or non-European) Infrastructures. If the activity is realized within a (national, european, international) collaboration (give name) give the relevant web site. Specify the type of contribution to the collaboration, e.g, data analysis, detector development, construction of hardware, etc. (max 1 page)

A.25 **EDUCATIONAL ACTIVITIES:** Is your institution involved in educational/training activities? If yes, then give a short description of these activities (undergraduate courses, graduate, etc..) and the average number of people involved in these activities over the last 10 years as well as and their capacity (3 prof., 1 lecturer...). Indicate the profile of the people educated or trained in your institution and their number over the past 10 years (e.g. 8 PhD students, 6 Undergraduate, 10 technicians etc...). (max ½ page)

A.26 **GRANTS & SCHOLARSHIPS:** Are grants and scholarships available to young nuclear physicists to perform PhD studies? Give average amount/months of a Ph.D scholarship as well as its typical deviation from a) a tenured-post salary, b) a European Marie-Curie grant (use preferably net amounts). Indicate fraction (%) of scholarships in nuclear physics at national / institutional level. (max ½ page)

A.27 Is your Institution evaluated by an international committee or the equivalent? If yes, when has the last evaluation taken place? Comment, if necessary (max ¼ page)

A.28 How do you evaluate the contribution of your institution to the “scientific product” of your country? How do you evaluate your scientific outcome compared to that of other West European institutions? What is the role of your institution in the educational system of your country? How do you evaluate the contribution of your institution to the economy of your country (max ¾ page).

A.29 Does your institution provide services to “external clients”? If yes, describe the relevant activities, the level of involvement of your personnel, the fraction of these activities compared to the total scientific outcome of your institution, as well as the fraction of funding of your institution via these services. Include any relevant information you want to be included. (max 1 page).

A.30 Use this page to provide any additional information you would like to be included in the report.

PART B: INFORMATION ON THE PERSONNEL

Please fill tables 1 and 2 to identify the full time equivalent posts currently employed in each category working in nuclear physics research. Use fractions of posts if appropriate.

TABLE B.1: COMPOSITION OF THE PERSONNEL HAVING ACTIVITIES IN THEORETICAL NUCLEAR PHYSICS

PERSONNEL	Posts	% of activities in QUANTUM CHROMODYNAMICS	% of activities in PHASES OF NUCLEAR MATTER	% of activities in NUCLEAR STRUCTURE	% of activities in NUCLEI IN THE UNIVERSE	% of activities in FUNDAMENTAL INTERACTIONS	% of activities in APPLICATIONS OF NUCLEAR SCIENCE	TOTAL	% of activities performed at OTHER INSTITUTIONS AND ABROAD
TENURED POSTS: Total	4	30%	5%	50%	8%	5%	2%	100%	25%
Professors	2								20% of total abroad
Researchers	1								
Lecturers	1								
Other	0								
FIXED-TERM POSTS: Total	5	15%	20%	15%	12%	30%	8%	100%	10%
Post docs	3								10% of total abroad
Marie Curie Grants	1								
Work Contracts	0								
Other	1								
STUDENTS: Total	9	20%	15%	30%	20%	10%	5%	100%	30%
PhD completed (2000-today)	3								10% of total abroad
PhD in progress	2								
Master's completed	1								
Master's in progress	3								
SUPPORTING PERSONNEL: Total	2	20%	15%	25%	0%	40%	0%	100%	0%
specify (e.g. comp. expert)	1								0% of total abroad
other	1								
TOTALS	20	21.25% = (30+15 +20+ 20) /400	13.75%	30%	10%	21.25%	3.75%	100%	16.25% = (25+10 +30+0) /400

NOTES: Fractions in % refer to the total number of the personnel of each category. Column 9 should always result to 100%. Column 10 refers to activities exclusively performed in other facilities national or located abroad. Indicate, additionally, the fraction of these activities carried out abroad (as shown in the table).

**TABLE B.2: COMPOSITION OF THE PERSONNEL HAVING ACTIVITIES IN
EXPERIMENTAL NUCLEAR PHYSICS**

PERSONNEL	Posts	% of activities in QUANTUM CHROMODYNAMICS	% of activities in PHASES OF NUCLEAR MATTER	% of activities in NUCLEAR STRUCTURE	% of activities in NUCLEI IN THE UNIVERSE	% of activities in FUNDAMENTAL INTERACTIONS	% of activities in APPLICATIONS OF NUCLEAR SCIENCE	% of activities in ACCELERATOR AND DETECTOR R&D	TOTAL	% of activities performed RUNNING EXTERNAL USER FACILITIES
TENURED POSTS: Total	10	15%	5%	25%	10%	5%	30%	10%	100%	40%
Professors	4									20% of total abroad
Researchers	3									
Lecturers	2									
Other	1									
FIXED-TERM POSTS: Total	8	20%	0%	20%	10%	2%	40%	8%	100%	20%
Post docs	4									20% of total abroad
Marie Curie Grants	2									
Work Contracts	1									
Other	1									
STUDENTS: Total	18	5%	10%	15%	15%	0%	20%	35%	100%	30%
PhD accomplished (2000-today)	5									15% of total abroad
PhD in progress	4									
Master's accomplished	3									
Master's in progress	6									
SUPPORTING PERSONNEL: Total	12	8%	5%	30%	7%	5%	25%	20%	100%	5%
Engineers	3									0% of total abroad
Technicians	6									
Lab. Assistants	2									
Other	1									
TOTALS	48	12% = (15+20 +5+8) /400	5%	22.5%	10.5%	3%	28.75%	18.25%	100%	23.75% = (40+20 +30+5) /400

NOTES:

- Fractions in % refer to the total number of the personnel of each category.
- Column 10 should always result to 100%.
- Column 11 refers to activities exclusively performed in other facilities national or located abroad. Indicate, additionally, the fraction of these activities carried out abroad (as shown in the table).

B. 3 **PERSONNEL AGING**: Give the average age (or age limits) for the nuclear physics personnel in your institution (if possible, specify for each sub-field). Describe briefly the personnel's employment and evaluation system (if any). Comment on brain drain (if any). Include any relevant information of importance. (max ½ page)

PART C: INFORMATION ON RESEARCH INFRASTRUCTRES

Infrastructure # 1

(Not more than 1 page for fields C.1- C.19)

C.1	Name:	
C.2	Location:	(Country/City)
C.3	Type:	(see options [1]-[7] below)
C.4	Postal Address:	
C.5	URL-address	

C.6	Director/Head	
C.7	Phone	
C.8	Fax	
C.9	Email	

C.10	Contact person	
C.11	Position	
C.12	Phone	
C.13	Fax	
C.14	Email	

Scientist filling this questionnaire:

C.15	Name	
C.16	Position	
C.17	Phone	
C.18	Fax	
C.19	Email	

[1] Laboratory of a Department of a University

[2] Laboratory of an Institute belonging to a National Research Organization distributed in different sites.

[3] Laboratory of an Institute belonging to a National Research Center.

[4] Independent laboratory of a University

[5] Independent laboratory of a National Research Organization distributed in different sites.

[6] Independent laboratory of a National Research Center

[7] Other (please specify)

C.20 Short description of the Research Infrastructure. Indicate the main scientific and technological domain(s) served by the Research Infrastructure. (max ¼ page)

e.g.

5.5 MV Ion-beam T11 Tandem accelerator (manufactured by High-Voltage Engineering)

Main scientific fields: Nuclear Physics and X-Ray Physics.

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C.21 Period of operation. Estimation of the investment in current values.

30 years in operation (first beam delivered in 1973).

10 Million Euros

C.22 Yearly required operational costs (including administrative personnel and maintenance). Fraction of year's budget spent for upgrade of the infrastructure including instrumentation. Fraction of operational costs funded by national or other sources. If necessary, comment briefly on shortage/adequacy of operational funds.

C.23 If a user facility, then indicate: a) average number of working hours/year, b) average number of hours/year used by external national users, and c) average number of hours/year used by scientists from abroad. Is a Program Advisory Committee or the equivalent evaluating the research proposals/activities of users?

C.24 Number of actual, active users of the facility in a given year. Fraction of national users and users from abroad. Does a formal users group exist for your facility and what is the number of registered members?

C.25 Give a brief profile of the personnel assigned to the Research Infrastructure. (Staff, post-docs, PhD students, non-permanent associates etc).

C.26 Is the Research Infrastructure evaluated by an international committee or the equivalent? If yes, when has the last evaluation taken place? Comment, if necessary

C.27 How do you evaluate the contribution of your infrastructure to the “scientific product” of your country? How do you evaluate your scientific outcome compare to that of other Western European research infrastructures? What is the role of your infrastructure in the educational system of your country? How do you evaluate the contribution of your infrastructure to the economy of your country.

C.28 Major facilities, instruments and services provided to researchers. (max 1 page)

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C.29 Provide any relevant information on the operation of the Research Infrastructure that is of interest for users, e.g. type of experiments, beam species, intensities, allocation of time, guest rooms etc. (max. 1 page)

C.30 Does your Infrastructure provide services to “external clients”? If yes, describe the relevant activities, the level of involvement of your personnel, the fraction of these activities compared to the total scientific outcome of your institution, as well as the fraction of funding of via these services. Include any relevant information you want to be included. (max. 1 page).

PART D: INFORMATION ON THE RESEARCH GROUPS

TO BE FILLED BY GROUP LEADERS

D.1 GROUP NAME and URL

Nuclear Structure, Astrophysics and Reactions Group (NuSTAR)

URL: <http://www.inp.demokritos.gr>

D.2 Group Leader: Name and contact details

Dr. Sotirios Harissopulos,

Principal Investigator, Head of the VdG Tandem Accelerator. Laboratory

Institute of Nuclear Physics, NCSR “Demokritos”,

POB 60228, 153.10 Aghia Paraskevi, Athens, Greece.

Email: sharisop@inp.demokritos.gr

Tel. +30.210.6503493

Fax +30.210.6511215

D.3 Group members:: Names, type of post, and E-mails

Dr. A. Lagoyannis, post-doc, lagoya@inp.demokritos.gr

Ms. A. Spyrou, Ph.D student, spyrou@inp.demokritos.gr

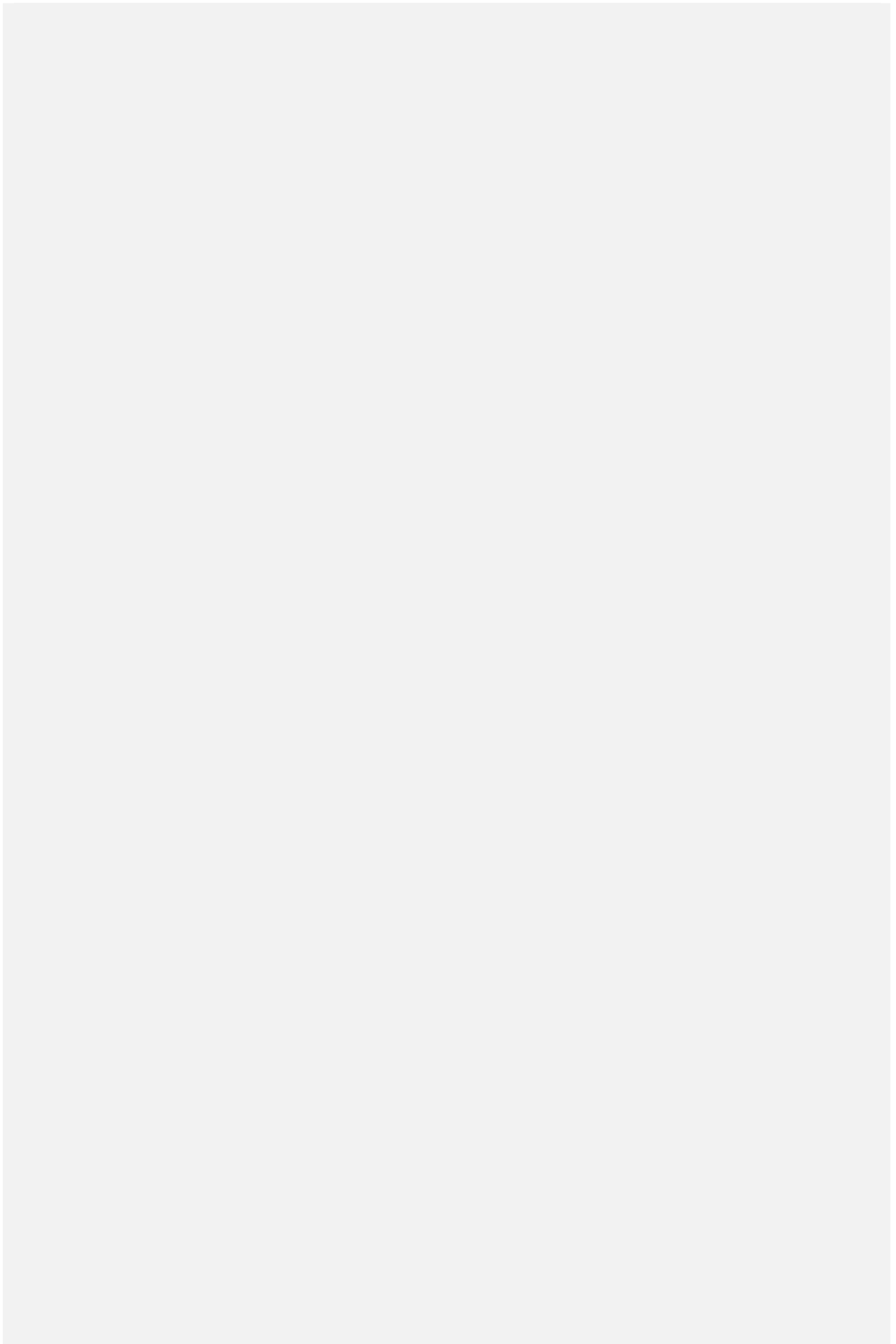
..

D.4 Indicate collaborating groups/institutions and give basic information on their affiliation, group leader, email and URL

- Dynamitron Tandem Laboratorium, Ruhr-Universitaet Bochum, Bochum, Germany
Prof. C. Rolfs, Email: rolfs@ep3.rub.de, URL: <http://www.dtl.rub.de>
- ..
- ..

D.5 Are members of the group involved in under-/post-graduate and/or other training programs? If yes, describe these programs and indicate the average man-months devoted to these activities.

D.6 Describe the activities of your group and their impact on nuclear physics research.
(not more than 2 pages)



D.7 Cite up to 5 recent publications per activity in peer-reviewed journals. Add books and any publication on popularization of science activities.

D.8 Indicate where each activity is performed (in situ, in own country, abroad, etc.)

D.9 Describe any other activity of your group that you would like to be included in the report. (½ page).

D.10 Are you informed about the funding policies of EC offered within FP7? If not, please comment. Express your opinion on any funding issue of nuclear physics research in Europe you want to be included in the report. (½ page).