



News of the ISOLDE Group

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Outline

- Fellows Associates and students
- Courses and activities during 2014
- ENSAR 1
- ENSAR 2
- Workshops 2014, dates?
- Financial situation of the collaboration
- Collaboration Matters
- 50th Anniversary of the Approval of ISOLDE
- First discussion of AGATA@HIE-ISOLDE

Fellows, Associates & Students

- Associates (new deadline 13th of September)
 - Alfredo Poves January - June 2014
 - New Applications: Claes Fahlander, Palle Gunnlaugsson
- Corresponding Associates (new deadline 13th of September)
 - Janne Pakarinen
- Fellows: (new deadline 3th of September)
 - ✓ Susanne Kreim, Dec2014 (ground state properties)
 - ✓ Elisa Rapisarda, Sept 2014 (Nuclear structure)
 - ✓ Monika Stachura, April 2013- March 2015 (Applied Sciences)
 - ✓ Jan Kurcewicz, Nov 2011 - June 2014 (ENSAR, 5 months prolongation, EU)
 - ✓ Miguel Madurga (June 2014 – May 2016) (Nuclear structure)
 - ✓ Stephan Ettenbauer (June 2014 – jan 2017)

Many request this time most probably the fellow will be taken in the September call

- Doctoral student: **Next deadline 6th of May 2014.**
 - ✓ **DOCTORAL STUDENT For FIXED DECAY STATION : NEW**
 - ✓ **Doctoral Program with Greece for life sciences (50% GR, 50% CERN):**
 - Stavroula Pallada (March 2014 - Feb 2017)
 - ✓ **Doctoral Program with Germany**
 - Laura Grob Jun2014 –
- **Technical student: No technical student**
- Technicien: Julien Thiboud, -August 2014 (Col + **EU support**)
- User support: Jennifer Wetterings (50% Col + 50% PH)

Courses 2014 / Workshops

● Courses

● Nuclear Reactions and Nuclear Structure Course

Wilton Cartford, Alexia DiPietro, and Antonio Moro

➤ 22-25 April 2014

● Separator courses in December 2014

● Workshops

● ISOLDE Workshop 25 – 27 November 2013

✓ 40 contributions

Session of Poster

● HIE-ISOLDE Workshop 28-29 November 2013

● TSR@Workshop

14th of February 2014

● NEW Dates:?

15-17 of December 2014



ENSAR (European Nuclear Structure and Application Research)

- The aim of Integrated Activities in FP7 is to improve the access of European Researchers to facilities which are not in their country of Origin and to increase the output of these facilities. This is done through 3 types of work packages:
 - Trans-national access (TNA)
 - Networks (NA):
 - ✓ The EURISOL-NET Network in ENSAR (NA3,WP3, Y. Blumenfeld *leader*)
 - Task 1 : Coordination of R&D (Y. Kadi *leader*): First workshop at CERN 27-28 June 2011
 - Task 2: Physics and Instrumentation (A. Bonaccorso *leader*)
 - Joint research activities (JRA) :
 - ✓ ACTILAB (JRA2/WP8, Thierry Stora (EN) *Leader*).
Improvement of Actinide target technology for ISOL facilities.
 - ✓ PREMASS (JRA3/WP9) coordinated by Ari Jokinen (JYFL Finland)
Task. Improvement of beam purity and emittance in ISOL facilities.
Valentin Fedosseev (EN) leads a task
- ENSAR started on Sept. 1, till August 31st, 2014.
 - Apply for prolongation until 31 Dec 2014
 - Next meeting 11 April 2014
- Y.B.<<>> M.J.G. Borge is the CERN representative

STATISTICS Until April, 2013/2014

Number of beam hours-Full Contract	5200
provided as of 31/12/12	6946,4
Number of users- full contract	400
Supported as of 31/12/12	352 (User counted 1 per IS-exp)
Number of days support- full contract	2800
Supported as of 31/12/12	2244
Number of projects – full contract	
Supported as of 31/12/12	75 (different experiments)
T&S – full contract (EUR)	252000
Distributed as of 31/12/12	256947 (309672CHF)
Number Experiments / researchers	75 / 352
Rate of days per experiment	4.69 researcher / exp
Access costs – full contract (EUR)	291408
Access costs up to 31/12/12	389276 (= 6946,4 x 56,04)

Remining 33.000 CHF for 2014

News of ENSAR2 / 10 sept 2013

- **Members of SSC:** R. Alba, F. Azaiez, M.J.G. Borge, D. Cortina Gil, M. Freer, J. Gerl, H. Goutte (substituting for W. Korten), M. N. Harakeh (Chair), P-H. Heenen, R.D. Herzberg, : R. Julin, M. Lewitowicz, A. Maj, N. Pietralla, K. Riisager, K. Rusek, S. Szilner, L. Trache, K. Turzó, W. Weise
- **Maximum Budget 10 Meuros**
- **Next meeting @ GSI 10 April 2014**

TNA for ENSAR2

GANIL (France)

GSI (Germany)

LNL / LNS (Italy)

JYFL (Finland)

ISOLDE – CERN (Switzerland)

ALTO – CNRS (France)

KVI (The Netherlands)

SLCJ-HIL / IFJ PAN (Poland)

ELI-NP / IFIN-HH (Romania)

ECT* (Italy)

Budget < 50 % of ENSAR2

JRA / NA

- All **Integrating Activity (IA)** should be for the benefit of the **Research Infrastructures (RIs)** within the IA. The **TransNational Access Activities (TNAs)** are to serve the community by offering access to the advanced unique RIs of an IA.

NAs @ ENSAR2

FISCO: Management NA

ASTARTE: advancement of radiation therapy detectors

NucApp: nuclear applications (medical applications, *e.g.*, hadrontherapy?)

FULN: Fundamental Understanding of Light Nuclei

ENSAF: small scale accelerator facilities

HiCONS: High Complexity nuclear structure

GDS: Active targets (TPC gaseous detectors)

MIDAS: ECR ion sources

Precision tests of FIS

Advanced electronics network

The JRAs @ ENSAR2

Theory (Nuclear Structure & Reactions)

AGATA detector + applications

ECOS: stable ion beams + medical isotopes

EURISOL facility (all stages)

RESIST: resonant ionisation techniques for separators

PASPAG-SEE: particle and gamma detection

SiNuRSE2: simulations

Call for H2020 Sept 2014



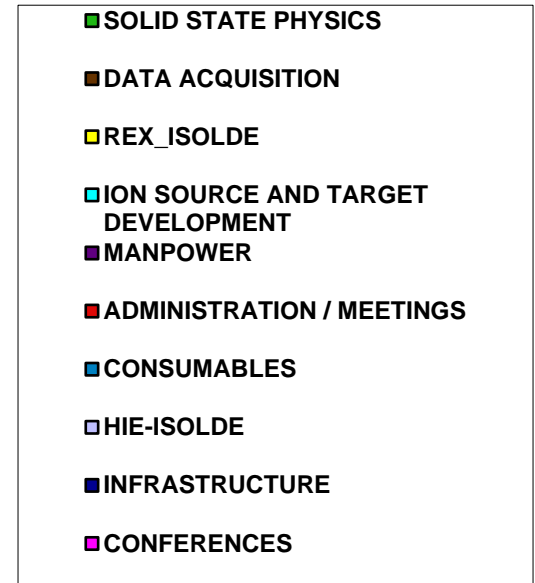
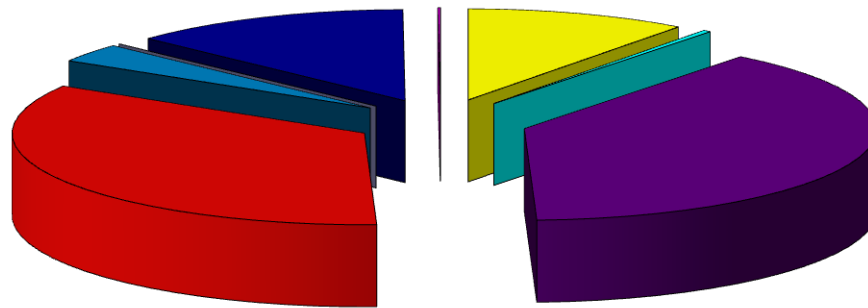
Collaboration Matters

Income of the collaboration

Country	Amount per year (CHF)	2013 contribution Received
Belgium	60.000	✓
CERN	60.000	✓
Denmark	60.000	✓
Finland	60.000	
France	60.000	
Germany	60.000	✓
Greece	60.000	
India	60.000	
Ireland	60.000	
Italy	60.000	✓
Netherlands	60.000	✓
Romania	60.000	✓
Spain	60.000	
Sweden	60.000	✓
United Kingdom	60.000	✓

Bulgaria has agreed with the ISOLDE-MoU & Sergio Bertolucci has signed the 21st of March 2014

Collaboration Expenditure 2013



Expenditure 2013 217456

Contribution 2013 to HIE-ISOLDE of 500.000 Minimum

Expenditure foreseen for 2014 250.00 – 300.000

Present balance 474. 746,80

Contributions 2013 71 % received

Remaining electronic pool rental charged to the Phys Group

50 Anniversary of approval of ISOLDE/ History

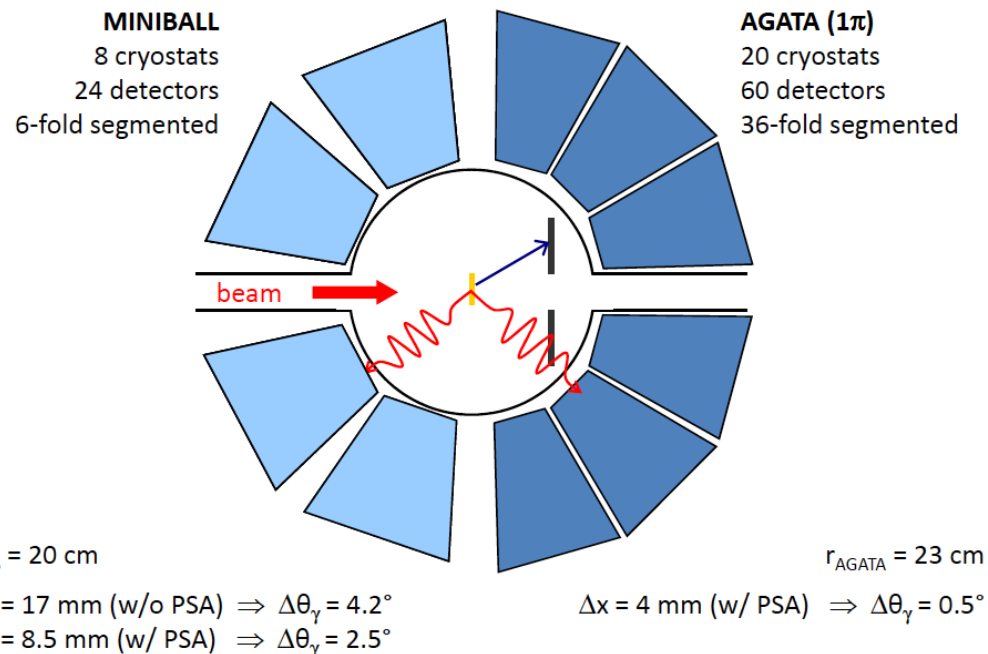
- **10 April 1964** The physics case and organization of the project was presented to NP to incorporate the electromagnetic isotope separator, designed by Rudstam & Anderson, in the external beamline of the SC.
- General enthusiasm → separator planned by working party
G. Anderson, R. Bernas (Orsay), B. Hedin, K.O. Nielsen (Aarhus), O. Skilbreid.
- Layout of the facility defined September 1964 by the working party.

Celebration: opening to the public of SC as EPS historical Building

2. To create a “Financial Committee” that met 24 April 1965 with 12 members 2 representatives from each Country: CERN, Denmark, France, Germany, Norway and Sweden
- Memorandum **26 October 1964**, chairman of Nuclear Structure Committee, Torleif Ericsson recommended the on-line separator to the NPRC
 - *“Western Europe was leading position in this field...project of high scientific value”*
 - Proposal presented by Ericson in the NPRC on **2 Dec 1964** and approved on **17 Dec 1964**

AGATA @ ISOLDE

- Letter from the 17th of February:
- The AGATA Collaboration has to decide soon on where to locate the instrument from 1/1/17 for its next science campaign (typically 18-36 months).
- Laboratories interested in hosting AGATA in this period and available to bear the costs of the local infrastructure to submit a letter of intent (LoI) to the collaboration.
- LoI's should be submitted to the collaboration (to Giacomo de Angelis) by **the end of May 2014**.



PUBLICATIONS

YEAR	N. PUBLICATIONS	PH. D thesis
2010	67	V. Bilstein T.E. Cocoolios R. Domínguez Reyes D. Fink S. Naimi D. Neidherr K. Wimmer A. Meaney
2011		M. Albers J. Lommen O. Müller M. Thürauf M. Zboril
2012	62	Ch. Borgmann E. Estevez J.G. Johansen T. E. Mølholt A.B. Perez Cerdán M. Seidlitz M. Stachura
2013	90	P. Kessler B. Siebeck T.J. Procter D. Di Julio J. Cullen K. Kreim
	14	

Please send us the reference and if possible a copy of the thesis done based in data from ISOLDE

