



News of the ISOLDE Group

Maria J. G. Borge



Outline

- Fellows Associates and students
- Courses and activities during 2013
- Workshops 2013
- ENSAR 1
- ENSAR 2
- Financial situation of the collaboration
- Experiments

Fellows, Associates & Students

- Alfredo Poves January - June 2014
- CAS: Olof Tengblad (Jul-Dec 2013)
- Fellows: Present status
 - ✓ Susanne Kreim, Dec2014
 - ✓ Elisa Rapisarda, Sept 2014
 - ✓ Monika Stachura, starting April 2013- March 2015
 - ✓ Jan Kurcewicz, Nov 2013 (ENSAR, 5 months prolongation, EU)
- Doctoral student: **Next deadline 19th of November.**
 - ✓ **Assigned 1 NEW DOCTORAL STUDENT For FIXED DECAY STATION starting January 2014**
 - ✓ **Edoardo Bizotti (IT)**
 - ✓ **Doctoral Program with Greece for life sciences (50% GR, 50% CERN)**
- **Technical student: No technical student**
- Technicien: Julien Thiboud, August 2014 (Col + **EU support (?)**)
- User support: Jennifer Wetterings (50% Col + 50% PH)

Fellows, Associates & Students (future)

- Fellows & Associates deadline 3rd of September 2013
One very good candidate for the IDS + Miniball
Well externally evaluated.
No Associate request or technical student.

- **Future Deadlines**

- **ASSOCIATES AND FELLOWS COMMITTEE**

- 20 May 2014 - deadline for applications* **Fellows, 3 March 2014 (one more)**
 - - deadline for applications* **Associates, 13 March 2014**
- 11 November 2014 - deadline for applications* **Fellows, 3 September 2014**
 - - deadline for applications* **Associates, 13 September 2014**

- **TECHNICAL STUDENTS COMMITTEE**

- 28 January 2014 - deadline for applications,* **19 November 2013**
- 24 June 2014 - deadline for applications,* **6 May 2014**

- **SUMMER STUDENTS**

- March 2014 - deadline for applications,* **31 January 2014**

Courses 2013

- **Statistical Methods for Nuclear Physics**

Karsten Riisager

18-20 of March

Great Success more than 25 attendants.

- **Physics courses for Summer students: 3 lecturers 17-19 July 2013**

1. Magda Kowalska:

2. Magda Kowalska: ISOLDE facility

3. Magda Kowalska: ISOLDE Physics

- **Three Lectures by Rick Casten 23 – 25 July 2013**

-The new Frontier of exotic Nuclei—shattering cherished paradigms and building a new synthesis

- Emergent collectivity, phase transitions and cosmological consequences.

- **Shell model for non Practicioners 14 – 18 of October**

By Frederick Nowacki , E. Courier, G. Martinez-Pinedo, A. Poves, K. Sieja

- **Reaction course in April 2014**

- **Separator courses in May 2014**

Workshops 2013

- 1 Day workshop on ASPIC 6 of September
- 2 days Workshop by Miniball (24-25 oct)
- ISOLDE Workshop 25 – 27 October 2013
 - ✓ 40 contributions
 - Session of Poster call for submissions
 - Sponsor by CATHI program
- HIE-ISOLDE Workshop 28-29 November 2013
 - Registration still open



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**.
Discussion of prolongation due to the late start of FP8, Horizon 2020
- Y.B.<<>> M.J.G. Borge is the CERN representative

STATISTICS Until April, 2013

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

- K. Blaum as chair of the INTC participated in the FCC
- Magda went for the TNA meeting and General Assembly
- Financial report was approved as it was presented with the remark that reports from some laboratories will come later.
- Mushin got the mandate to discuss with EU officers **the prolongation of ENSAR until ENSAR2 starts.**
 - it means that in January/February he will **discuss 6-7 month extension** in order to gap the bridge to ENSAR2
 - They agreed that in about 6 months, once we know the EU decision on the prolongation,
 - The FCC and Ensar steering committee (i.e. facility representatives) will prepare a proposal for fund redistribution. This proposal will be sent to GA members for vote via email.
- Next GA will be in October 2014 or in April 2015 (probably in Vienna), depending on the prolongation decision,

ENSAR 2 / Town Meeting

● Call for NA, JRA, until 15th of April

● Presentations in Warsaw June 19-20

● 14 proposals for NA

● 27 proposals for JRA

● Presentations in Warsaw under the title BEYOND ENSAR

● TNA Krakow + Warsaw

● TNA KVI

● TNA ELI-NP

- ASTARTE (P. Thiof)
- DEMARCOS (P. Haensel)
- NucApp (S. Leray)
- Phys & Instr for new generation of High Flux
- High Complexity Nuclear Structure (S. Lenzi)
- UNITHERI (D. Lacroix)
- NUSTAR (C. Scheidenberger)
- Fundamental Interaction (A. Jokinen)
- FULN (M. Freer)
- Theory Network in Reactions (A. Moro)
- ENSAF (Harissopulos)

Merging of several JRA before Warsaw

- ECOS (F. Azaiez)
- AGATA: TNA or JRA (B. Cederwall)
- EURISOL (Piet Van Duppen)
- DEMARCOS (P. Haensel)
- Beamlab (C. Lau)
- PASPAG (O. Tengblad)
- AHEAD (A. Drouart)
- RESIST (I. Moore)
- Separator Control (S. Pietri, GSI)
- MIDAS (Koivisto, JYFL)
- Gas filled detectors (Grinyer)
- Nuclear tools for Medical applications
- Sinurse2
- Neutron Detectors (D. Cano-Ott)
- Gamma Tracking (D. Napoli)

Meeting 10th of September Paris

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

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

Draft for each Initiative end of Nov 2013

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	17.....	P. Kessler B. Siebeck T.J. Procter D. Di Julio J. Cullen K. Kreim

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





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	Discussion with Greece on going	
India	40.000	
Ireland	10.000	
Italy	60.000	✓
Norway	60.000	✓
Romania	60.000	✓
Spain	60.000	
Sweden	60.000	✓
United Kingdom	60.000	✓

Budget for 2013

Foreseen Budget for 2013

●	Man Power :		
➤	Experts		35000
➤	Target & Ion source	8000 (A. Gottberg Jan-April)	
➤	RILIS		3400 (Seliverstov Jan-Feb)
➤	Rex-Operation		83792 (Thibaud)
➤	Student support		25000
➤	ISOLDE Seminars		6000
			161192
●	Administration		35000
●	Consumables		40000
●	Conferences & schools	10000	
●	TOTAL		250.000

● **Expenditure 2013** **208.101,86 (January-Sep)**

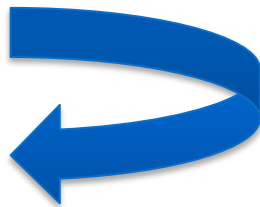
● Contribution 2013 to HIE-ISOLDE of 500.000 pending

● Minimum Expenditure foreseen for **2014** 250.00 – 300.000

● Present balance 983. 925

● Contributions 2013 70 % received

● Remining electronic pool rental charged to the Phys Group Account



Experiments

ASPIC → VITO

Technical Review (Chair R. Catherall) 3rd September

- “The proponents have thoroughly investigated both the installation and integration of this new beam line.
- From a technical point of view, no justified objections to this installation were raised
- The panel recommends that the ISCC and INTC supports this initiative by the VITO Collaboration

🌐 NICOLE: Fridge repaired

- A new proposal submitted in October 2013
- Ask for a new setting at the ISOLDE Hall
- New Collaboration lead by: Taka Ohtsubo & Miroslav Veskovic

🌐 HELICOIDAL spectrometer → Large Grant submitted to STFC to develop advanced detection systems for TSR