

# News of the Sol 22 Group

Maria J. G. Borge



# Outline

- Fellows Associates and students
- Courses and workshops during 2014
- ENSAR 1
- ENSAR 2
- Financial situation of the collaboration
- Collaboration Matters
- News on 50<sup>th</sup> Anniversary of the Approval of ISOLDE
- Letter of Intend to host AGATA@HIE-ISOLDE



# Fellows, Associates & Students

- Associates (new deadline 13<sup>th</sup> of September)
  - Alfredo Poves January June 2014
  - Claes Fahlander July Dec 2014
  - New Applications: Palle Gunnlaugnnon
- Corresponding Associates (new deadline 13<sup>th</sup> of September)
  - Amandina Lima Lopes July-october 2014
  - New Applications: Janne Pakarinen
- Fellows: (new deadline 3<sup>th</sup> of September)
  - ✓ Susanne Kreim, Dec 2014 (ground state properties)
  - ✓ Elisa Rapisarda, Dec 2014 (Nuclear structure)
  - ✓ Monika Stachura, April 2013- March 2015 (Applied Sciences)
  - ✓ Jan Kurcewicz, Nov 2011 Aug 2014 (ENSAR, 5 months prolongation, EU)
  - ✓ Miguel Madurga (June 2014 May 2016) (Nuclear structure)
  - ✓ Stephan Ettenbauer (June 2014 jan 2017, COLLAPS, Polarisastion beams)
  - ✓ Akira Miyazaki (SC cavities)
  - Kara Lynch (Jan 2015 Dec 2017)
- Doctoral student: **Next deadline 6<sup>th</sup> 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: : One next year for the ISOLDe Tape Transport system (50% PH + 50% EN)
- 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 15 – 17 Dicember 2014
 One session dedicated to celebrate
 the 50 years anniversary of ISOLDE approval.



CATHI (Cryogenics, Accelerators and Targets for Hie-ISOLDE) Review Meeting: The goal is to present to the ISOLDE community the results achieved throughout the duration of the CATHI project and their contribution to the HIE-ISOLDE project.

> Date: 22<sup>nd</sup> – 26<sup>th</sup> September 2014; Deadline for inscription June 27th Hotel H10 Marina, Barcelona, Spain <u>http://www.hotelh10marinabarcelona.com/fr/index.html</u>



## **ENSAR prolong until December 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 courted 1 per IS-exp)
Number of days support- full contract Supported as of 31/12/12 Number of projects – full contract Supported as of 31/12/22 T&S – full contract (EUR) Distribute, Reminialent to 2 Number Experiments / rese, EQU/S Rate of days per experiment Access costs – full contract (EUR)	2800
Supported as of 31/12/12	27 FOR 201
Number of projects – full contract	CHE IS.
Supported as of 31/12/22.15	1 daufferent experiments)
T&S – full contract (EUR) $ining t to L$	252000
Distribute Remivalerz	256947 (309672CHF)
Number Experiments / rese EQU's	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)



#### ENSAR<sup>2</sup> (European Nuclear Structure and Application Research)

- Mimbres 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
- Deadline for the application September 2<sup>nd</sup> 2014
- Meetings 2014 @ GSI 10 April 2014, Paris 16-17 June 2014

**TNA for ENSAR<sup>2</sup>**: 47.4 %

GANIL (France) GSI (Germany) LNL / LNS (Italy) JYFL (Finland) ISOLDE – CERN (Switzerland): 712.000 Euros (10 M)/ ENSAR 2009: 543.380 (8M) Euros ALTO – CNRS (France) KVI (The Netherlands) SLCJ-HIL / IFJ PAN (Poland) ELI-NP / IFIN-HH (Romania) ECT\* (Italy)

# JRA / NA

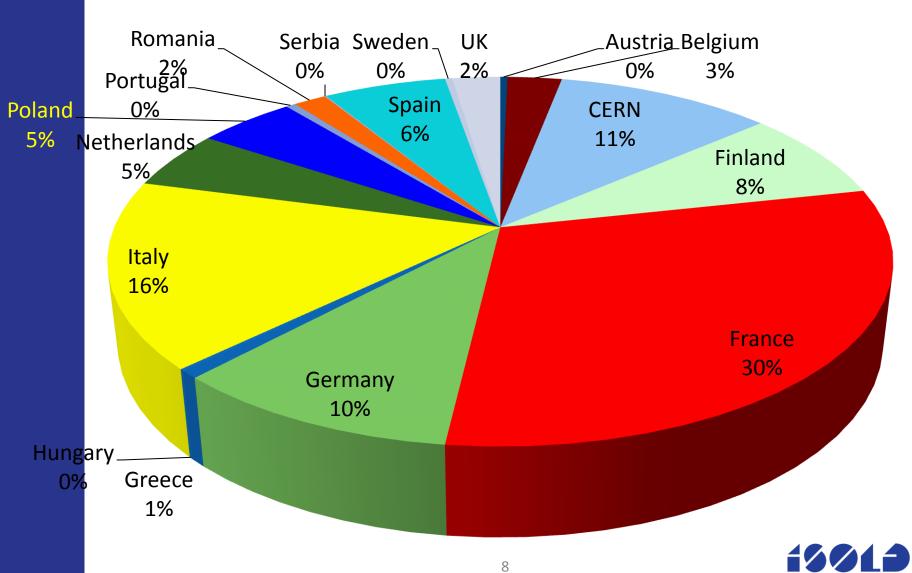
All Integrating Activity (IA) should be for the benefit of the Research Infrastructures (RIs) within the IA. The Trans National Access Activities (TNAs) are to serve the community by offering access to the advanced unique RIs of an IA.

NAs @ ENSAR<sup>2</sup> : 15,2 %

FISCO: Management NA NUSPRA: Network of facilities to propose common DAQ, electronics.. MEDINET: nuclear applications (medical applications, *e.g.*, hadrontherapy?) ENSAF: small scale accelerator facilities NUSPIN: Strengthen nuclear structure community GDS: Active targets (TPC gaseous detectors) MIDAS: ECR ion sources The JRAs @ ENSAR<sup>2</sup> : 37.4 % TheoS(Nuclear Structure & Reactions) AGATA detector + applications ECOS: stable ion beams + medical isotopes EURISOL facility (all stages) RESIST: resonant ionisation techniques for separators PASPAG: particle and gamma detection SiNuRSE2: simulations



# **ENSAR<sup>2</sup> Beneficiaries per Country**



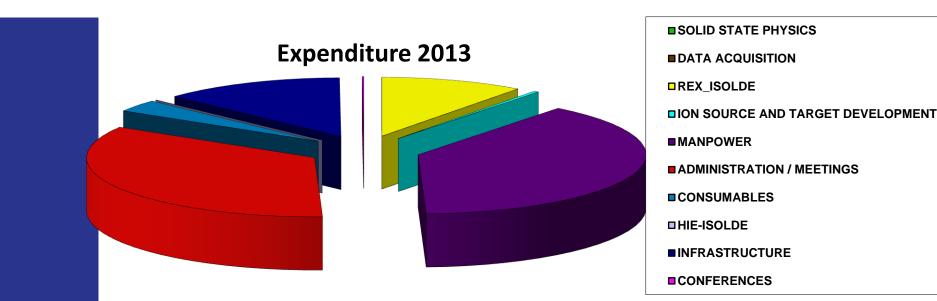
## **Collaboration Matters**



## Income of the collaboration

Country	Amount per year (CHF)	2013 contribution Received
Belgium	60.000	· · · · ·
CERN	60.000	Sereis
Denmark	60.000	N A
Finland	60.000 JDE-N	201 ···
France	60.000 BEISOL Mar	
Germany	60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000	
Greece	ed withe appin	
India	igned ess to ining.	
Irelan aria he has	e prodinjon	
Bullerolucci in th	resteu	<ul> <li>✓</li> </ul>
NC Berrand 13, Sin	0.000	<ul> <li>✓</li> </ul>
Roma Policeria	60.000	<b>v</b>
Spain AIB	ed withe to apprivate the process to apprivate the process to apprivate the process to apprivate the process to ining. The process to ining to apprivate the process to ining to apprivate the process to apprivate the proce	
Sweden	60.000	<ul> <li>✓</li> </ul>
United Kingdom	60.000	<ul> <li>✓</li> </ul>

### **Expenditure Collaboration**



Contribution 2013 and 2014 to HIE-ISOLDE already transferred. Minimum Expenditure foreseen for 2014 250.00 – 300.000 (presently: 134.264 SCHF)

Balance 23 June 2014 Contribution 2012 Contributions 2013 Contributions 2014

431. 810,15 SCHF 96,2 % received 75 % received 52.5 % received



# **HIE-ISOLDE 2**

Revised MTP in May: "From a physics point of view, an early implementation of the TSR at the HIE-ISOLDE facility would be desirable. However, given the shortage of manpower and the need to focus on the LHC programme, this revised plan proposes the completion of HIE-ISOLDE Phase 2 a year later than previously foreseen, provided external funding is secured. This implies physics exploitation of HIE-ISOLDE Phase 2 (10 MeV/n) and the integration of the TSR only after the completion of LS2. The TSR commissioning would be 2.5 years later."

It Is Important to maintain the contribution of the collaboration for the period 2016-2020.

As we have to pay the loan at a rate of 140 kCHF/y we should engage 400 kCHF / y

The SPC afterwards after some lobbing was informed that the 10 MeV/u is foreseen for physics in 2017. The full SPC was reassured by this statement and Mark hopes it is taken up in the minutes. Concerning the TSR, the SPC recommends the revision of the plan to postpone the integration to after LS2.



#### Celebration 60 y: Inaguration of the Synchrocyclotron Visit Point:EPS historical Building



"The ISOLDE Facility, approved in 1964 and served by beams fro the SC from 1967 till 1990 was the first in the world to produced tailored made nuclei enabling unique experiments with a large variety of ion beams."

# AGATA @ ISOLDE

- 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). Two applications: prolongation at GANIL and RIKEN
- Lol's submitted to the AGATA collaboration (to Giacomo de Angelis)
   27th of May 2014.

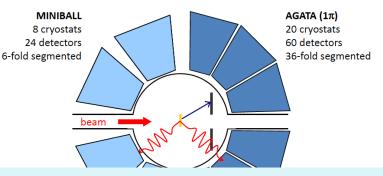
Proposal submitted for 2020-2021 based

- 1) Have full energy
- 2) Increase of intensity from

LINAC 4 + 2 GeV of PS Booster.

It will be defended by the Miniball chair

P. Reiter June 26th



**CONCLUSIONS:** The ISOLDE community is interested to host the AGATA detector. Considering the time scale of the HIE-ISOLDE project and the expected increase in intensity due to the advent of Linac4 and the increase of energy of the PS-Booster we would like that the AGATA collaboration considers the option of moving the AGATA detector to couple to Miniball for 2020-2022. This move will require a certain effort for the AGATA collaboration, as ISOLDE as such has no strong technical in-house support. At the same time we think we can guarantee ample beam time and the largest variety of tailored made radioactive beams in the world. The period from 2017-2018 is not very efficient as the second Long-shutdown at CERN is foreseen now for mid-2018.

# **Call for Physics Coordinator**

#### Description

- The coordinator is responsible for the management of the experimental physics programme at ISOLDE.
- He/she defines the beam schedule and oversees its implementation in cooperation with the ISOLDE technical staff. He/She acts as liaison between the users and the technical staff.
- The coordinator also serves as Group Leader In Matters Of Safety (GLIMOS) at ISOLDE and as scientific secretary of the ISOLDE Neutron Time of flight Committee (INTC).
- Qualifications: PhD in Physics with some post-doctoral experience.
- Prerequisites: -good communication and organizational skills-experience or knowledge of ISOL techniques for radioactive ion beam production-research experience employing radioactive ion beams-some acquaintance with the physics programme at ISOLDE.
- Procedure:
- ➤ 1) call for candidates: 1 August 1 October
- 2) set a committee to look at the candidates and build a short list of 3-4 candidates.
- Invite them for a short presentation in the ISCC meeting of 4th of November



## PUBLICATIONS

YEAR	N. PUBLICATIONS	PH. D thesis	
2010	67 eandit	V. Bilstein T.E. Cocoolios R. Domínguez Reyes D. Fink S. Naimi D. Neidherr K. Wimmer A. Meaney	
2011	us the sthe the the solution	M. Albers J. Lommen O. Müller M. Thürauf M. Zboril	
2012 Please	67 end us the the the solution ble a data 62 300 67 end us the the solution ble a data 62 90	Ch. Borgmann E. Estevez J.G. Johansen T. E. Mølholt A.B. Perez Cerdán M. Seidlitz M. Stachura	
2013	90	T.J. Procter D. Di Julio	
	16	J. Cullen 🔰 🔁	