



News of the ISOLDE Group

28th of June 2016

Maria J. G. Borge



Outline

- Associates, Fellows and Students
- Courses and activities during 2016
- ENSAR 2
- EURISOL-DF
- Long Range Plan
- Publications
- 50y of Exotic beams: The ISOLDE Laboratory portrait.
- HIE-ISOLDE Phase I celebration
- Visits statistics

Fellows & Associates & Corresponding Associates

- Associates (**16th September 2016**)
 - Giacomo de Angelis, Oct 2015-**August 2016 (prolonged 4 months)**
 - Olivier Sorlin, Feb 2016-July 2016 (**prolonged 1 month**)
 - **Bertram Blank (Sep 2016 – August 2017)**
- Corresponding Associates (**16th September 2016**)
 - Georgi Rainovski (Ago – Nov 2016)
 - **Joao Pedro Steves De Araujo (2 months, unknown when he will start)**
- Fellows: (**5th of September 2016**)
 - ✓ Stephan Ettenbauer (June 2014 – Jan 2017, COLLAPS, Polarisation beams)/**ERC**
 - ✓ **Liam Gaffney (Oct 2016 – Sep 2019)**
 - ✓ Kara Lynch (Jan 2015 – Dec 2017)
 - ✓ Miguel Madurga (June 2014 – **July 2016**) (Nuclear structure), **Thanks!**
 - ✓ Vladimir Manea (Jan2016 – Dec 2017)
 - ✓ Akira Miyazaki (June 2014- April 2017, SC cavities)
 - ✓ Torben E. Molholt (Feb 2015 – Jan2017) (Applied Sciences)
 - ✓ Frank Wienholtz (Jan2016 – Dec2018) (Applied Sciences, ERC)

Doctoral Students

- **Doctoral student**

- CERN Doctoral Student for IDS: Razvan Lica (Sep2014 – August 2017)

- Doctoral Program for life sciences (50% GR, 33% CERN, 11% Madga's ERC)

- Stavroula Pallada (March 2014 - Feb 2017), Biophysics

- Doctoral Program with Germany

- Andree Werkens (feb 2015-Jan2018) ISOLTRAP

- Doctoral student York-CERN (ERC)

- [Rob Harding](#)

- Doctoral student Lund - CERN

- [Jacob Snall](#) (August 2016 - Jun2019) HIE-Physics

- And many other paid by their home institution.

Management Group

Coordinator: Muhsin N. Harakeh

Deputy Coordinator: Marek Lewitowicz

Manager: Ketel Turzó

Financial Officer: Veronique Vandevoorde

Administrative Officer: Sandrine Dubromel

Executive Board of PCC

TNAs: Maria G. Borge

Ari Jokinen

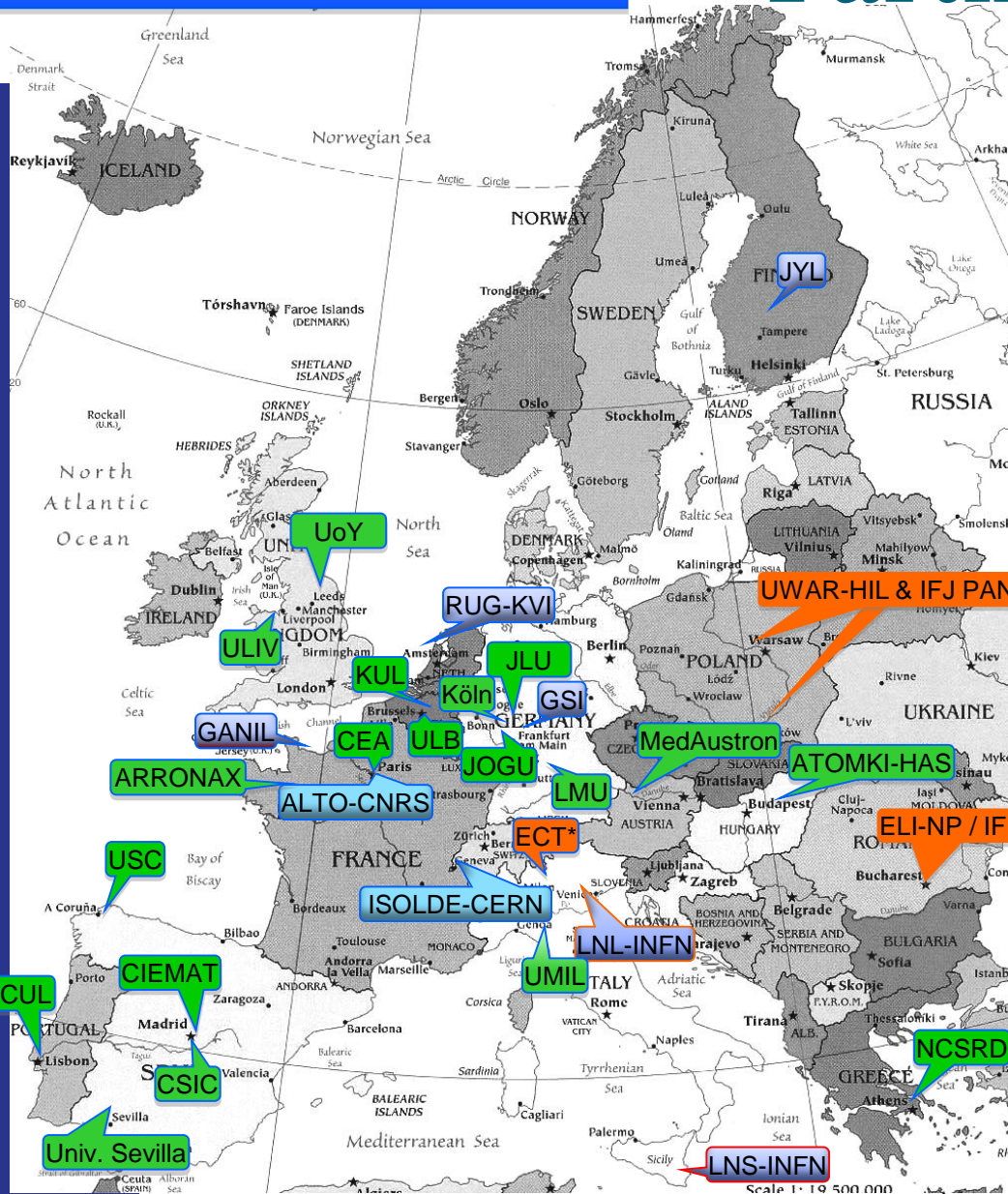
NAs: Andres Gadea

Olaf Tengblad

JRAs: Sylvia M. Lenzi

Christoph Scheidenberger

Partners



7 ⇒ 10 TNA Facilities

30 ⇒ 30 beneficiaries
15 countries

Community: 2700-3000
scientists and highly qualified
engineers

Close collaboration with
infrastructures outside Europe:
Canada: TRIUMF
China: IMP Lanzhou
Japan: RIKEN & RCNP
Russia: Dubna/JINR
South Africa: iThemba
United States: NSCL & ANL

TNA

GANIL-SPIRAL2 (France)

➤ LNL-LNS (INFN, Italy)

➤ ISOLDE (CERN, Switzerland)

➤ JYFL (Finland)

➤ ALTO (CNRS, France)

➤ GSI (Germany)

➤ KVI-CART (The Netherlands)

➤ NLC (HIL/IFJ PAN, Poland)

➤ IFIN-HH/ELI-NP (Romania)

➤ ECT* (Italy)

NA

➤ FISCO, NUSPRA (Ch Scheidenberger), MIDAS (H. Koivisto), NUSPIN (S. Lenzi),

MediNet ((ASTARTE+ Ion-Beam Therapy) P. Thirolf & G. Magrin, GDS (Grinyer), ENSAFF (S. Harisopulos), NuPIA (Nuclear phys Innovation)

JRA



➤ **PASPAG: Particle and gamma detection** Olof Tengblad

➤ **PSeGe: AGATA detector + applications** (Andres Gadea)

➤ **TheoS: Theory of Nuclear Structure & Reactions** (Denis Lacroix)

➤ **RESIST: Resonant ionisation techniques for separators** (Ian Moore)

➤ **SATNuRSE: Simulations and analysis tools** (Nasser Kalantar)

EURISOL facility (all stages)

Yorick Blumenfeld

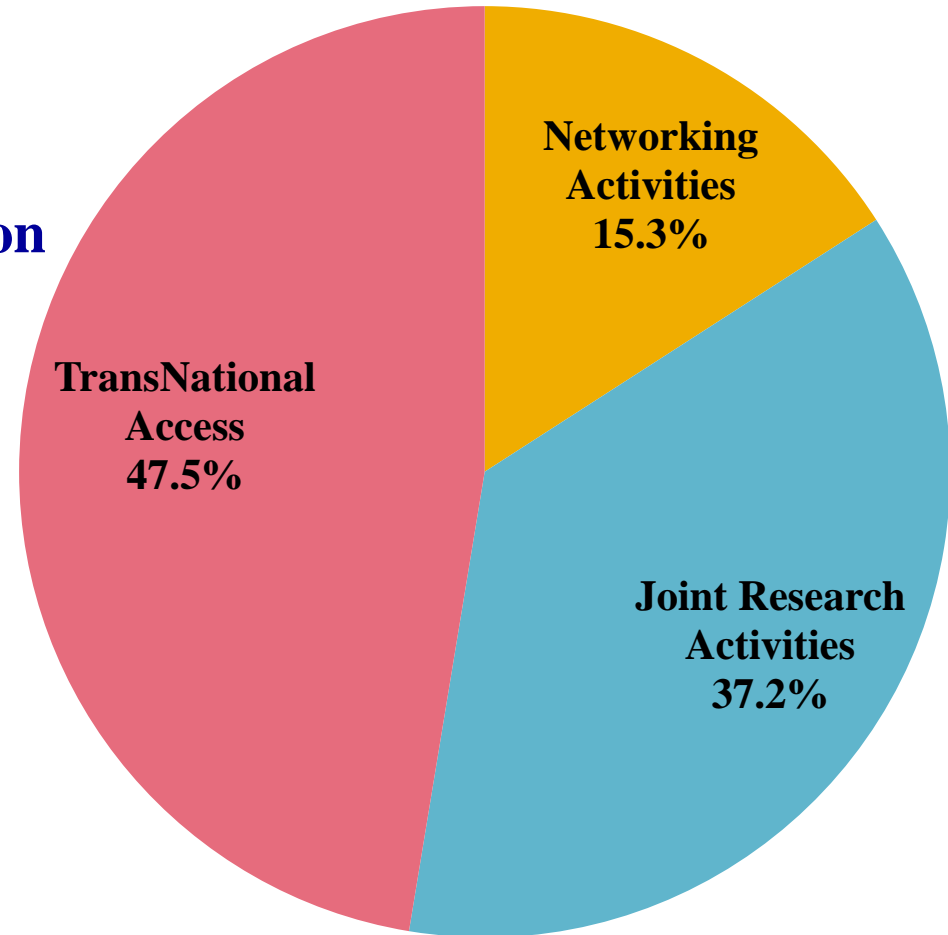
➤ **TecHIBA: Stable ion beams + medical isotopes** (Faïçal Azaiez)

BUDGET

**Total budget for ENSAR2: 10 000 000 €
to share between 30 beneficiaries**

Pre-financing: 3 250 000 €

**Next funding: after validation
of each periodic report**



ENSAR2 @ CERN

- RILIS within the JRA RESIST 70.000 → 56.000 or **60.200 euros**
- Target R&D JRA EURISOL 112.000 → 89.600 or **96.320 euros**
- EBIS within JRA EURISOL 39.000 → 31.200 or 33.540 euros
- Chamber for irradiation JRA TECHIBA 42.500 → 34.000 euros
- TNA ISOLDE: Users support 324.495 → 279.066 or **259.596 euros**
 - ✓ Access cost 387.504 → **310.003 CHF**
 - **1 Year post-doc 2018 to finish the MR-ToF for ISOLDE**
 - **50.000 CHF/y for a shared technician with EN**
 - **Help to cope with the safety regulations and with the higher complexity of the Facility.**

ENSAR2 / Grant Agreement: 654002

- Start date: 01 March 2016
- End date: 28 February 2020

Source: ENSAR 2 - GA 04.03.2016

	PROJECT H2020		
	CERN contribution	EU contribution	Total
Personnel cost	319,480.00	134,000.00	453,480.00
Subcontracting	0.00		0.00
Other costs	60,000.00	342,396.00	402,396.00
Indirect costs	94,870.00	119,099.00	213,969.00
Lump sum, flat rate / Access costs including indirect costs		387,504.00	387,504.00
Total Budget	474,350.00	982,999.00	1,457,349.00
Max Allowable EC Contrib	0.00	982,999.00	1,457,349.00
Requested EC Contribution	0.00	982,999.00	982,999.00
<i>Reimbursement rate</i>	0%	100%	67.45%

- Kick-off Meeting in Caen 16-17 April

ENSAR2 @ ISOLDE

- Selection committee:
- B. Blank, K. Riisager, K. Blaum, P. Van Duppen, M.J. Garcia Borge, K. Johnston, J. Schell.
- Two meetings 23 / 3 / 2016 and 6 / 6 / 2016
 - (Reporting Period) For the first 3 months of the ENSAR2 project until 31st of May we have awarded 211 days to 16 projects.
 - 338 days from 11th April to 27th June corresponding to 21 projects
 - 144 days for 2nd scheduled period corresponding to 12 projects (28th June to 14th August)

 - Allowance reduced from 138 CHF to 120 CHF due to overheads

Towards EURISOL-DF

EURISOL DF is a necessary intermediate and ambitious step towards EURISOL.

Members: ALTO, GANIL, ISOLDE, ISOL@MYRRHA, Jyvaskyla, SPES, COPIN (Poland)

Goals of EURISOL-DF

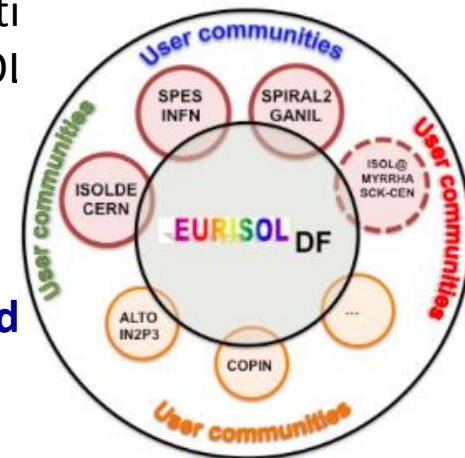
- Prepare a strong physics case for RIB science and applications
- Support, upgrade, optimize and coordinate European ISOL facilities
- Get EURISOL-DF on the ESFRI List as candidate project
- Web page: www.eurisol.org/eurisol_df/

To prepare the case for Europe 5 working groups are created

- WG1 Science and Application: Coordinator R. Raabe)
- WG2 Acceleration: Coordinator Alberto Facco
- WG3 Beam Handling Coordinator M Borge.
- WG4 Spectrometers and Detectors Coordinator: H. Savajols
- WG5 EURISOL-DF Relationships and Legal Structure coordinator A. Bracco
 - Discussion of sharing beam time

Timeline: Draft ready 7th July 2016

Discussion @ European level: EURISOLDF 2016, Leuven 18 – 21 October 2016



NuPECC News: Long Range Plan

- The Nuclear Physics European Collaboration Committee has started the preparation of a new Long Range Plan for Nuclear Science in Europe.
- Last one in 2010 . LRP is important reference for a period of 5-7 years.
- 6 chapters have been identified like in the editions of 2004 and 2010.
 - 1. **Hadron Physics.** *Diego Bettoni (Ferrara) + Hartmut Wittig (Mainz)*
 - 2. **Properties of strong-interacting Matter**
 - 3. **Nuclear Structure and Reaction Dynamics.**
 - 4. ***Nuclear Astrophysics***
 - 5. **Symmetries and Fundamental Interactions**
 - 6. **Applications and societal benefits**
- First draft presented in NuPECC meeting in Uppsala → VERY ADVANCED
- The town meeting to have the final public discussion will be hosted by GSI-FAIR in January 2017.

ISOLDE Laboratory Portrait

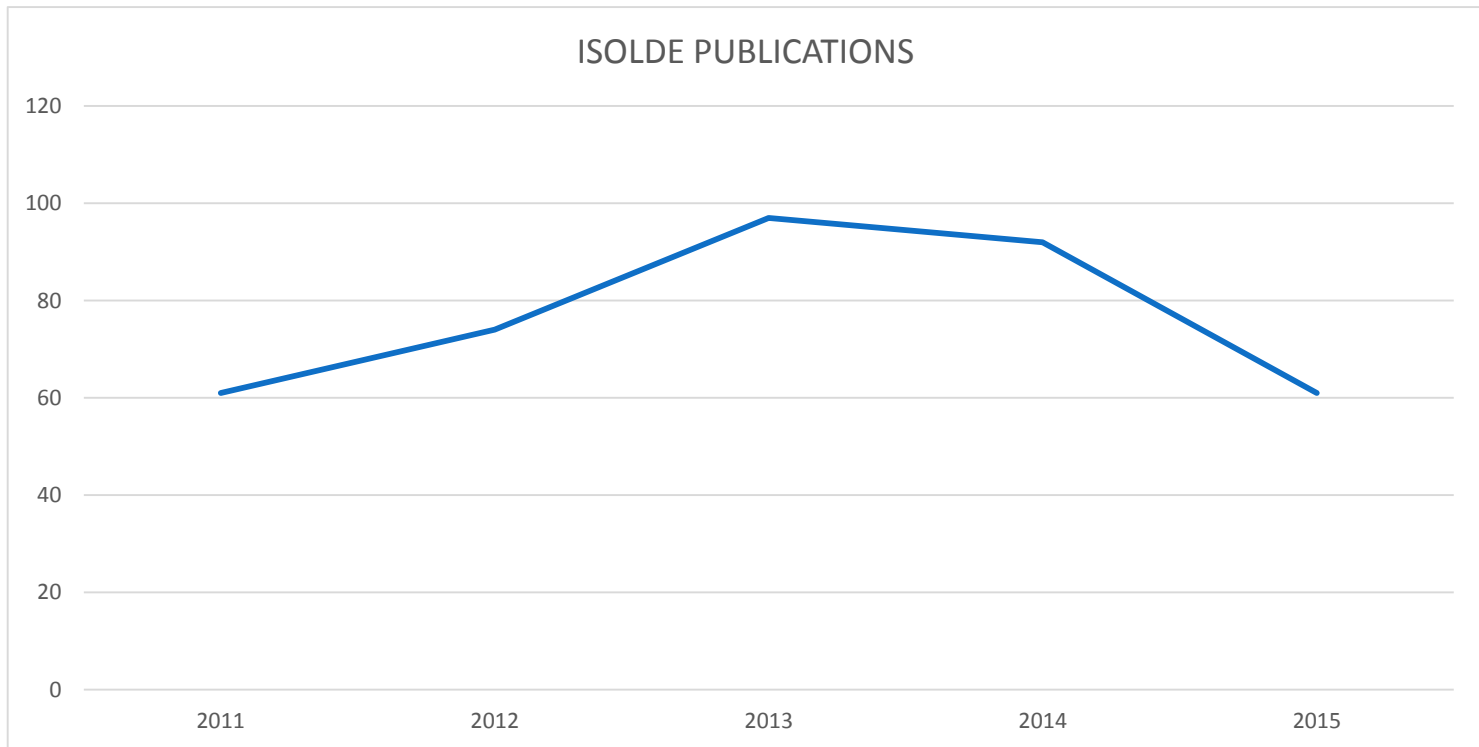
- Tentative title: “Exotic beams at ISOLDE: A laboratory Portrait ”
- To be publish in J Phys G in 2017
- Content:
 - Experimental facilities and methods (on invitation). 15-10 pages
 - 16 invited papers
 - 3 invited contributions by theoretician: A, Schrenk, A. Poves , J. Dobaczewski
 - Articles by submission: 15 contributions

Timeline: Invited contribution sent in February and deadline : 1st of November
The invited speakers coordinating each contribution should have got an invitation letter from Colin Adcock. PLEASE ANSWER

Publications

- Update the list of publications. Completed.
- Supervising that they are upload it in the CERN system.

Year	N. Publications
2011	61
2012	74
2013	97
2014	92
2015	61



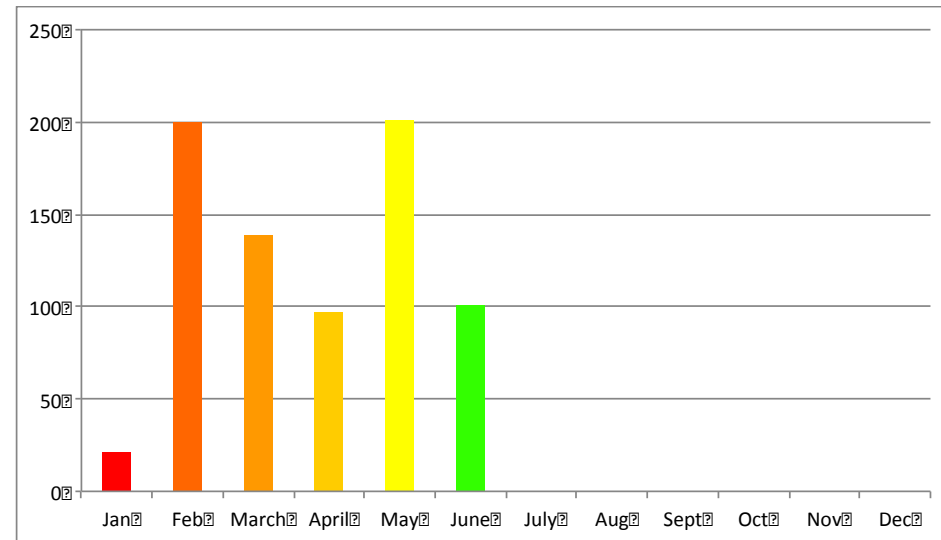
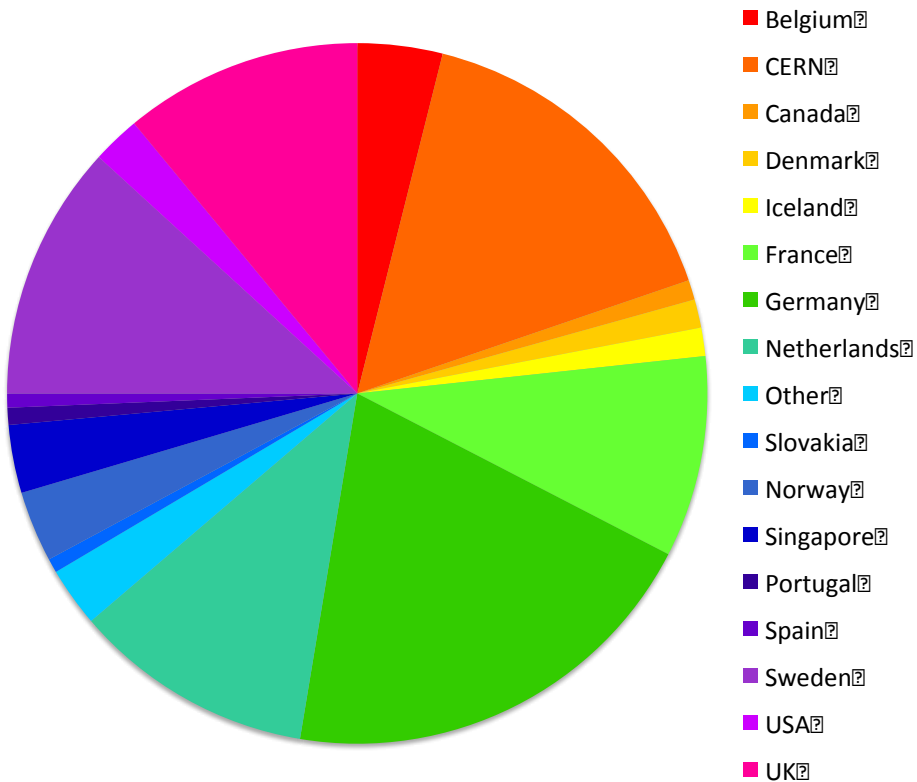
Visitors

Number of visitors still growing.

2014 : 745

2015: 857

Jan-Jun 2016: 760



HIE-ISOLDE Phase I celebration

- **Chosen date : Wednesday 28th of September 2016**
- **More than 100 people invited.**

● For the attention of

The ISOLDE Collaboration request the pleasure of your company at the HIE-ISOLDE Phase 1 celebration on Wednesday 28 September 2016 from 12.00 to 15.00 at CERN in building 500.

RSVP at the link at the end of this email by Wednesday 31 August 2016 -----

● A l'attention de

Ms Jennifer Weterings ISOLDE User support **CERN**

La Collaboration ISOLDE vous prie de lui faire l'honneur d'assister à la celebration de HIE-ISOLDE Phase 1 qui aura lieu le mercredi 28 septembre 2016 de 12h à 15h au CERN, dans le bâtiment 500.

RSVP sur le lien à la fin de cet e-mail d'ici le mercredi 31 août 2016.

[RSVP](#)