15th AC/SAC Joint Meeting

16th Meeting Academic Council

IDPASC

University of Granada, 23rd Sept. 2023

Agenda

AC/SAC Joint Meeting

1. Information
2. Schools, Courses, Workshops, Public sessions
3. IDPASC PhD Programs
4. Other IDPASC future activities

AC Close Meeting

1. Admission of new partners
2. IDPASC Governance
3. Next AC Meeting (Dates/places)
4. AOB (Any Other Business)

1. Information

Brief report from the Executive Board (national representatives)

Members:

- Alberto Ruiz
- Bertrand Laforge (IDPASC Coordinator)
- Dijana Dominis Prester
- Gabrijela Zaharijas
- Ivan De Mitri
- Jakub Vicha
- Nuno Castro
- Sérgio Novaes
- Mário Pimenta (invited)

The Executive Board had already organized 2 meetings during the current year (April, July) + this week meeting

2. Schools, Courses, Workshops, Public sessions

a. 2022

    i.   **11th IDPASC School, Olomouc, 29 August to 07 September 2022**
        https://indico.cern.ch/event/1137808/
        Presentation by Jakub Vicha

    ii.   **7th Workshop IDPASC/LIP, Coimbra – 06 - 07 July 2022**
        https://indico.lip.pt/event/1245/
        Presentation by Mario Pimenta or Nuno Castro

    iii.   **GraSPA summer school 2022 in Annecy – 20-26 July 2022**
        https://indico.in2p3.fr/event/26368/
        Presentation by Pablo del Amo-Sanchez or Lucia di Caccio

b. 2023

i. 12ᵗʰ IDPASC School, 18-28 Sept. 2023, Granada, Spain
https://indico.cern.ch/event/1271437/
Presentation by José Santiago

ii. GraSPA summer school 2023 in Annecy – 18-25 July 2023
https://indico.in2p3.fr/event/29484/
Presentation by Pablo del Amo-Sanchez or Lucia di Caccio

b. 2024 and after

    i. 13th IDPASC School, Oct-Nov 2024,
       Palermo, Italy
       Presentation by Giovanni Marsella

    ii. 14th IDPASC School,   2025,
       Annecy, France (July) ?
       Rijeka, Croatia ?
       Discussion

    ii. 14th IDPASC School,   2026,
       Brazil ? **A status report by Ulisses Barres de Almeida-Sergio Noaves**
       Annecy, France
       Rijeka, Croatia ?
       Other proposals ?
       Discussion : Pablo, Lucia, Ulisses, Sergio

3. IDPASC PhD Programs 2023

i. PT – CERN PhD Program

 https://idpasc.lip.pt/pt_cern_grants/phd_programme/past_calls

ii. Proton Therapy PhD Program
https://prototerapia.lip.pt/phd_programme/past_calls

Presentation by Mário Pimenta

3. The SMASH Program and opportunities for IDPASC

https://smash.ung.si/

Presentation by Gabrijela Zaharijas

G. Zaharijas, Univ. Nova Gorica, Slovenia

Background

Science motivation:

Slovenia began operating **VEGA, a peta-scale supercomputer,** in 2021, the first such facility to come online as part of Europe's 7BEU project 'HPC Joint Undertaking'.

Strong institutions (in sciences and ML) but arguably insufficient cross talk + hard to attract the best talent due to relatively low local salaries.

Administrative aspects:

In COFUND schemes EC gives half funds while half should be matched by host institutions. **Slovenian Ministry of Science, Education & Sport** (MIZŠ) proposed to use **EU cohesion funds** to cover the necessary half, therefore giving a huge boost to local COFUND applications.
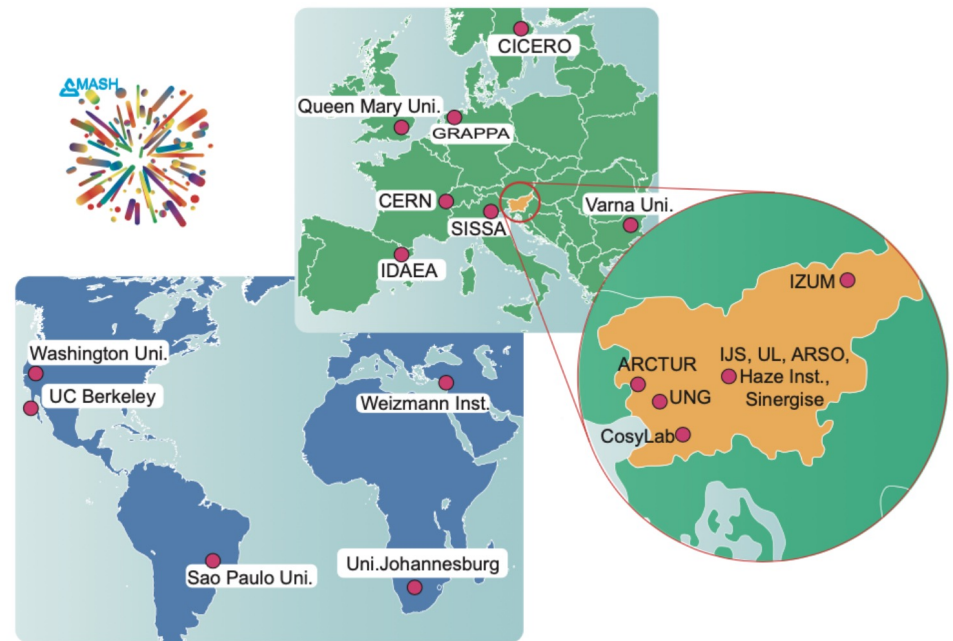
What is SMASH

Project funded 2023-2028, 10MEU, the biggest in Slovenia.

Funds to hire *postdoctoral* researchers (50 postdocs, 2 year contracts)

Postodcs will be hosted in five Slovenian institutions ('**implementing partners**'):
Un. of Nova Gorica (beneficiary), Un. of Ljubljana, Jozef Stefan Institute, Slovenian Environment Agency (ARSO), Institute of Information Science (IZUM).

But will spend up to 6 months total in at least two of ('**associate partner**') institutions. We have **23 academic and 7 non-academic associated partners** (Slovenian).
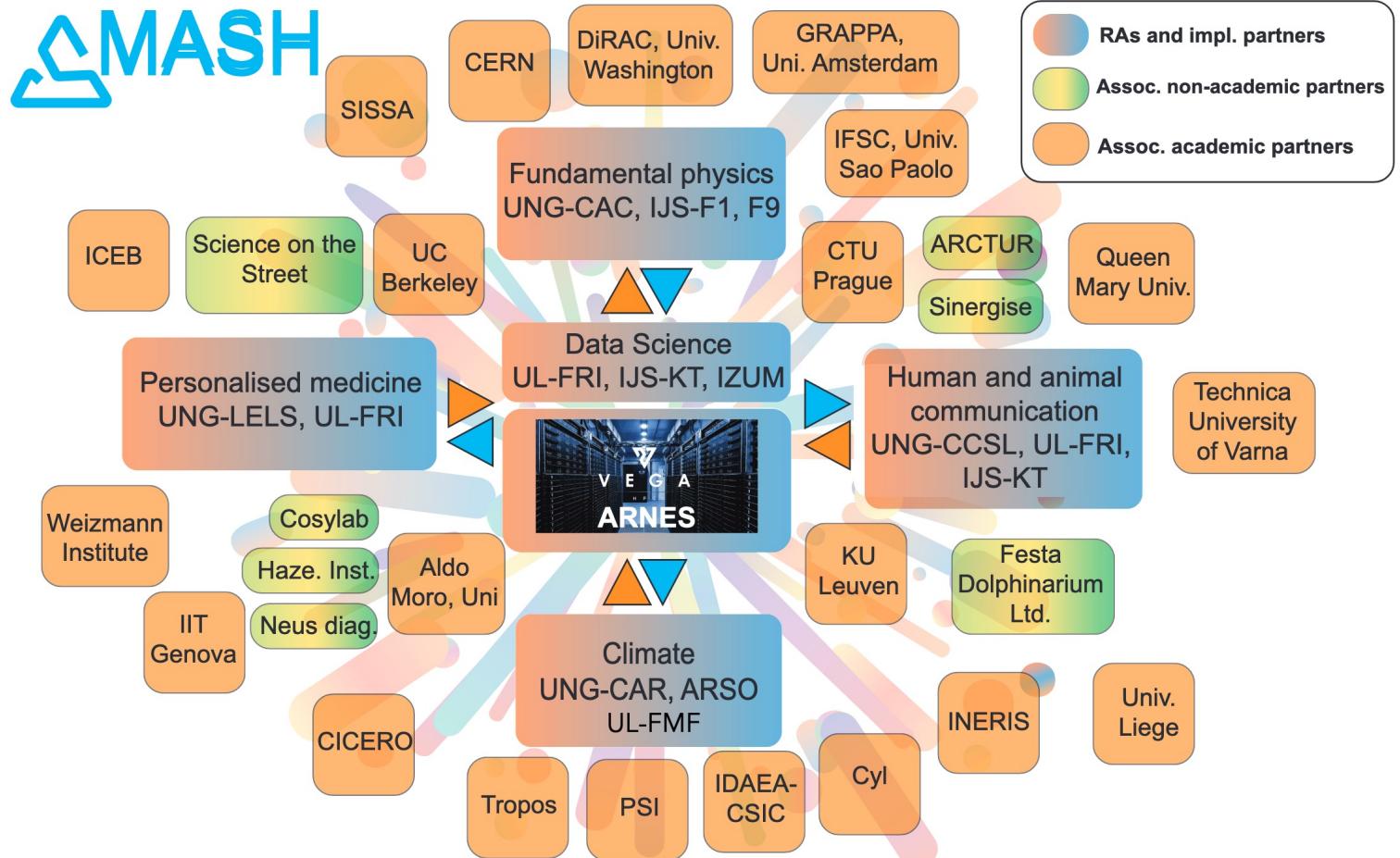
What is SMASH

Postdoctoral researchers will come with their own ideas to advance a subject area of their choice among the five following areas:

- RA1: Machine Learning for Scientific Applications
- RA2: Application of machine learning in open problems in fundamental physics of the Universe
- RA3 Computing for human and animal communication
- RA4 Machine learning in climate research
- RA5 Personalised medicine and life sciences

Who

Where are we now?

SMASH officially started (contract with EC) **on July 1st!**

The recruitment for the Call-1 finalised: 8 postdocs hired
Will arrive in 2024

Call-2 open, deadline Oct 27

SMASH

SMASH Calls

Who can apply?

Holders of PhD, of any nationality, or researchers who have successfully defended their doctoral thesis but have yet to be formally awarded their doctoral degree, complying with the MSCA-COFUND mobility rule.

How to apply?

Via on-line application platform: https://smash.ung.si/open-calls/ **Call-2 is now open! Deadline: October 27**

What SMASH Offers?

• 2-year full time fellowship - fellows will be compensated with monthly gross salary of €5449/€4882 (w or w/o family). For comparison, the average gross salary in Slovenia is about €2025 /month
• Excellent working conditions, access to top infrastructure (including the peta supercomputer Vega), substantial research and travel funds, collaborations with our Slovenian and world-wide partner institutions

SMASH

Next

We'll start organising training events

We'll have one or two more calls

Opportunities for
IDPASC network
(school, hans-on, …) ?

4. General discussion

IDPASC future activities

What caracterise IDPASC school from other current schools ? Should we do more ?

Communication about the network activities :

How to better include the labs in the activity of the network ?

-"Master classes" (with initial workshop)

* one concrete example (next slides)

- Joint PhDs ?

- European project submission ?

- How to better exploit European networks of universities ?

Master class proposal – R. Gaior LPNHE Paris

Noble liquid instrumentation

What we are talking about:

- Cryogenics: vacuum/pressured gas mechanics, clean equipment
- Safety: cryogenics, high pressure, asphyxia
- Instrumentation: slow control, emergency systems

Why it is adapted for researcher formation

- Expensive equipment: cryogenics/high pressure rated equipment is expensive, learning by yourself can end up pricy !
- Many valuable tricks: experience is key (ex: leaks detection, good thermal contact, many standards exist)
- Company contact: work with custom made equipment

Possible program

½ day workshop : presentation of related activities of the participants
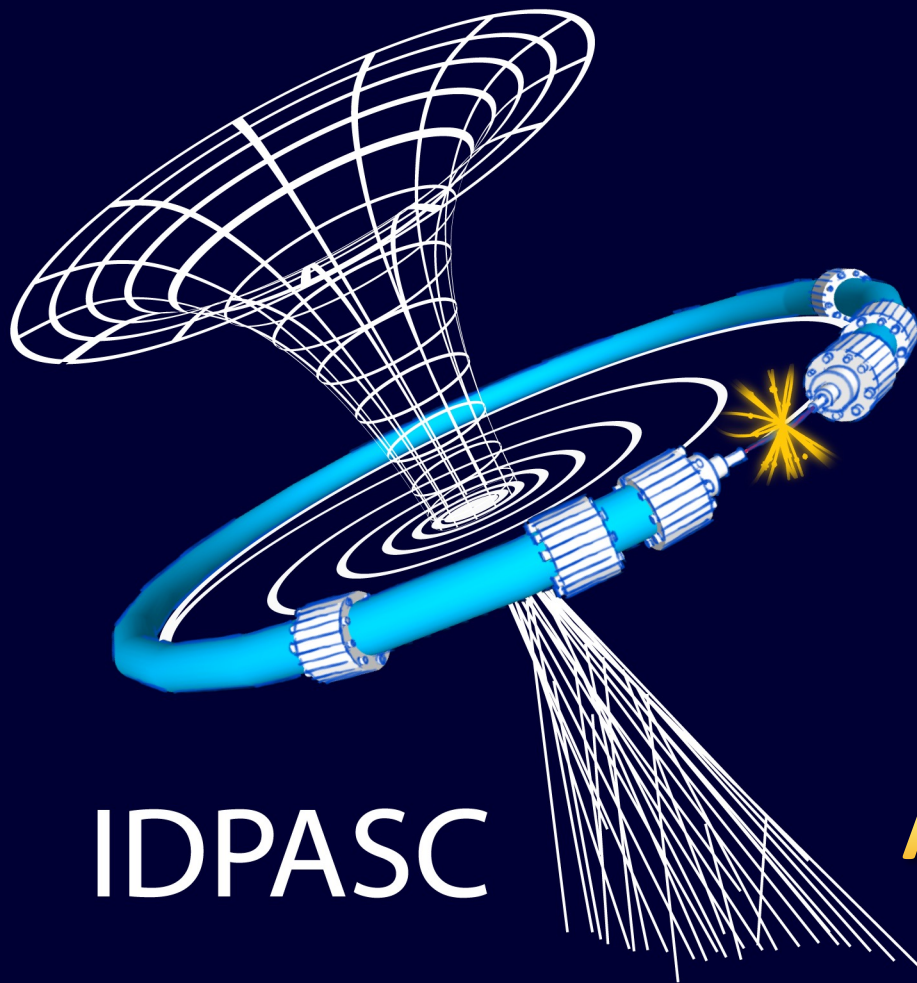
Visit of local equipement:
<u>goal</u>: show the main components of the training

Discussion with expert: Round table with experts, the participant describe their experience/goal and the problem they face
<u>Goal</u>: the participant get advice from expert on their specific problem and at the same time hear others. The organisers get a better idea of the problems and can reorient the program for next year if needed.

Hands on on equipment (examples):

- LN2 Dewar filling procedure
- LAr/LXe liquefaction
- Ar/Xe circulation for purification

Agenda

AC meeting

1. IDPASC Governance

2. Next AC Meeting

3. AOB (Any Other Business)

1. Admission of new partners:

- On going work with Brazil – Ulisses and Sergio Novaes
- Discussion on our strengthening in EU

2. IDPASC Governance

- **AC acted a rotation system for the appointment of the coordinator between members of the IDPASC countries, keeping the secretariat at LIP.**

- **The appointment of the coordinator starts January for a two-year term, keeping the secretariat at LIP.**

- **Coordinator for the next two years (2023/2024) is B. Laforge (SU, Paris). We need to anticipate the rotation in advance, election in 1 year already.**

3. Next AC meetings (dates/places)

Proposal to have the SAC/AC meetings during the IDPASC school as today

4. AOB

IDPASC

This year, finally we will meet again for our social dinner!!