

Enigmass+: c'est parti !

Céline Combet et Thibault Guillemin

Assemblée générale, IPAG, 8 Novembre 2024

Welcome and thank yous

- Welcome to Enigmass+ general assembly!
- Thank you to Guillaume Dubus and Marie-Hélène Sztefek for the local organization
- Thank you to the WG coordinators for the science organisation of the meeting
- Thank you to Florent Calvo (INP), Vincent Poireau (IN2P3), Susanna Vergani (INSU), for representing some of the governing bodies of federation today. Thank you to Corinne Goy for representing the UGA pôle PAGE.

The Enigmass+ federation and labex



INSU, UGA

~10 permanent scientists



IN2P3, UGA

~ 45 permanent scientists



IN2P3, USMB

~ 40 permanent scientists



INP, (IN2P3), USMB

~15 permanent scientists

The federation

- formalises the past collaboration of the 3 "historic" labs and the new one with IPAG
- provides a co-funding framework between CNRS, UGA (labex) and USMB
- re-inforces the national visibility of our labs/activities
- facilitates/encourages collaboration between Enigmass+ members

Direction: Céline Combet, Thibault Guillemin (Johana Paquien - assistante pilotage. Thank you!)

The Enigmass+ federation and labex financial administration is **hosted at LPSC** (Thank you Cécile Vannier!).

How did we get there?

Thank you Frédérique and Fabienne!

What we'll focus on in this talk

2012

2020

2023

2024

2025

2028

2032


Labex Enigmass(1,2)
ANR puis IDEX

Fédération Enigmass+ (IN2P3, INSU, INP, USMB, UGA)

Labex Enigmass+

Check out [summary slides](#) from last year's general assembly

Proposition Enigmass+


New labex is approved

Céline,
Thibault

Évaluation mi-parcours

Labex organisation = federation organisation

- Comité de pilotage : CNRS (IN2P3, INP, INSU), UGA, USMB
- Bureau : C. Combet, T. Guillemin (direction) + J. Paquien (assist. pilotage du projet) + TBD
- Comité des DUs: L. Derome (LPSC), G. Dubus (IPAG), B. Hermann (LAPTh), G. Lamana (LAPP)
- Scientific Advisory Board (TBD)
- Workpackage coordination (see next slides)

The Enigmass+ science

Nature of vacuum? How do particles acquire mass?

Origin of the matter - antimatter asymmetry?

Nature of dark matter and dark energy?

Behaviour of matter under extreme conditions?

Origin of cosmic rays, astrophysical neutrinos and gravitational waves?

A visualization of a particle detector, likely a calorimeter, showing a central point of interaction with numerous tracks radiating outwards. The tracks are colored in shades of blue, green, and yellow, and the detector structure is shown in a semi-transparent blue and grey.

WP1

Elementary particles and the search for new physics

A visualization of cosmic structure, showing a complex network of filaments and clusters. The filaments are colored in shades of green and yellow, and the clusters are shown in a more dense, orange and red color. The background is a light, textured grey.

WP2

Extreme phenomena in the Universe

A visualization of a galaxy field, showing a dense collection of galaxies of various colors and sizes. The galaxies are scattered across a dark, starry background, with some appearing as bright, multi-colored spots and others as more diffuse, elongated structures.

WP3

Dark matter, dark energy, inflation - early and late-time Universe

Overview and projects presentations later today!

The Enigmass+ (almost entirely) new team

**WP1 - Elementary particles and
the search for new physics**

**Cédric Delaunay (LAPTh)
Jean-Baptiste de Vivie (LPSC)**

**WP2 - Extreme phenomena in the
Universe**

**Sami Caroff (LAPP)
Benoît Cerutti (IPAG)**

**WP3 - Dark matter, dark energy,
inflation**

**Francesca Calore (LAPTh)
Laurence Perotto (LPSC)**

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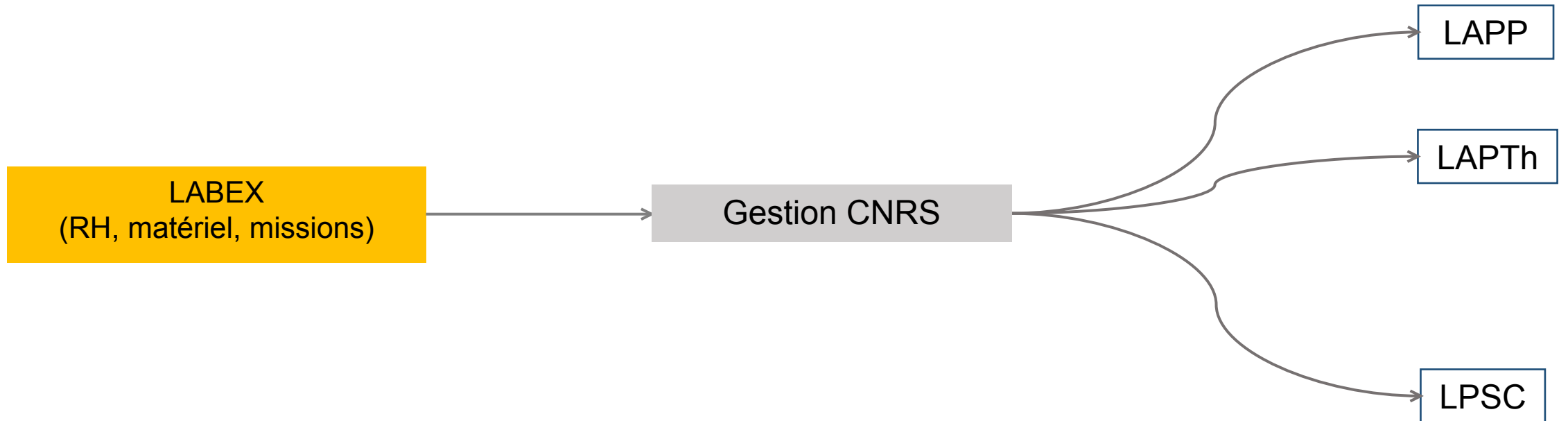
Training, visitors

Benoît Clément (LPSC)

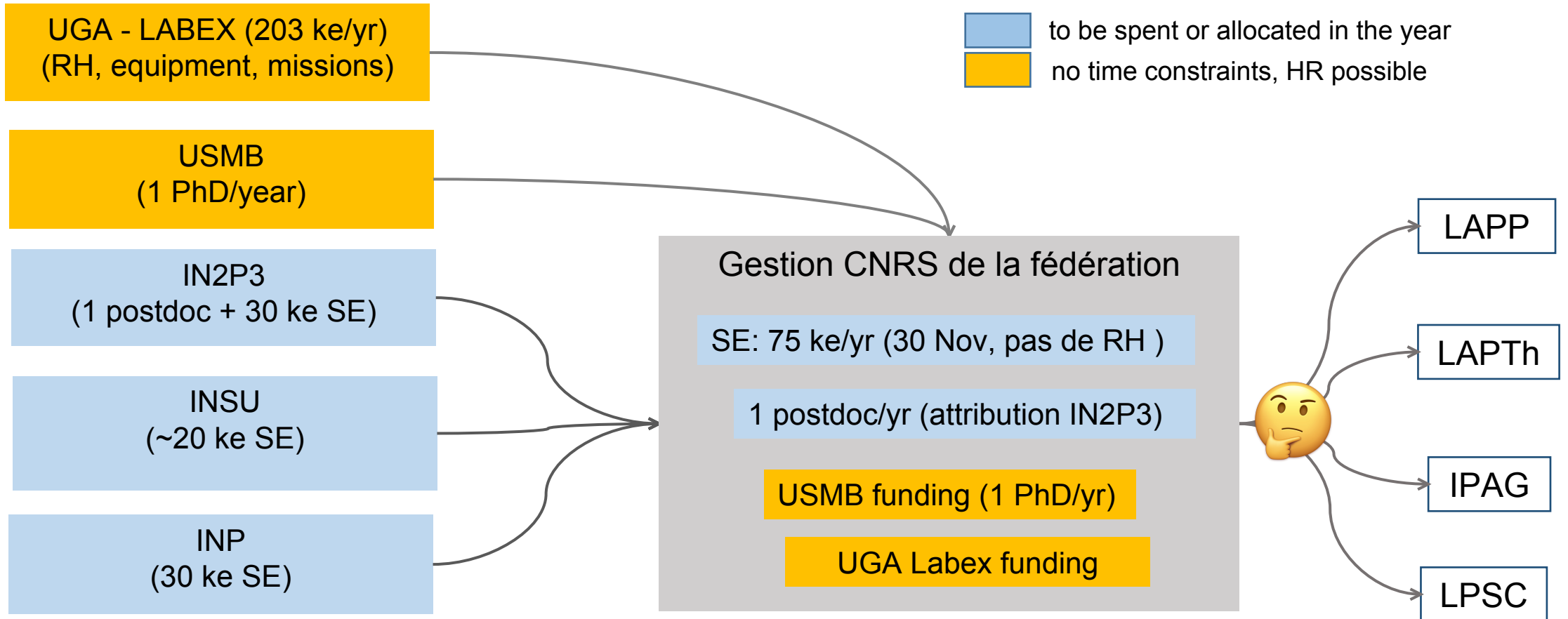
Outreach, communication

Laura Zambelli (LAPP)

Funding Enigmass1-2



Funding Enigmas+



Funding Enigmass+

Budget total: ~520 keuros/an

- Less than Enigmass2 (~ 560 keuros/an)
- All should be handled by DR11; "contracts" with UGA and USMB need to be set up
- More complex than before ; SE part has a deadline and may vary a bit from year to year

Goal: make this as easy/transparent as possible for you

The agreements between the various parties still need to be formalised (Merci Cécile)

Spending plan, starting 2025

PhD/Postdoc project call (~ Sept/Oct every year)

- 1 thesis
- 1 postdoc
- 1 or 2 others TBD, depending on project proposals

75-80 keuros SE every year

- Call for visitors and R&D projects per year
- **Locally organised** schools/workshop
- Recurring funding for the GRASPA school
- If possible, Master 2 internships (TBC)

~10 keuros for outreach/communication over 4 years

Large-scale R&D? need some thinking...

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Ongoing 2025 HR call

- deadline last Tuesday
- review by experts Nov/Dec
- results end of Jan/ early Feb

2025 visitor and R&D call

- open mid Dec to mid-Jan (TBC)
- results early/mid-Feb

No yearly calls - see Laura

2023 - 2024 : transition years...

2023

- postdoc IN2P3 : LPSC (Stefan Zatchler with J. Lamblin, WP1, RICOCHET)

2024

- postdoc IN2P3 : LAPP (Eduardo Barroso with D. Boutigny, WP3, LSST)
- 45 keuros SE (IN2P3, INSU) → call for visitors, R&D, outreach
 - 8 visitors (20 keuros)
 - 5 outreach projects (12 keuros)
 - 2 R&D projects (12 keuros)
 - 90% budget used before Nov 30 - not bad, need to see if we can better coordinate to redistribute what is not spent before the deadline.
- Development of new website (see next talk, merci Florent Collovati!)

So...

- We are (almost) ready and excited to get started in "nominal Enigmass+" mode
- There are still a few TBC and TBD that we need to clarify
- We will adjust things as necessary to best serve the Enigmass+ community

Plan for today

Before lunch

- 2 focus presentations (comm, R&D)
- WP 1 (overview + presentations from early-career scientists)

Lunchtime

- Group photo, on the stairs in front of the lab. To be used in the new website!
- Buffet
- IPAG visit

Afternoon

- WP2 (overview + presentations from early-career scientists)
- WP3 (overview + presentations from early-career scientists)

Enjoy the meeting !