

Enigmass Plenary Meeting

Introduction

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Welcome

- ❑ First Enigmass2 plenary meeting last year had to be a remote meeting
- ❑ We are very happy that this meeting can take place in person, thank you for coming!
 - And thanks to our coordinators who helped organize the meeting
- ❑ Special greetings and thanks to our:
 - Steering board members
 - International scientific council members

Formal and Financial Matters

- ❑ Budget path: ANR → UGA (Idex) → CNRS
 - Enigmass2: $5 \times 558.416 = 2.792.080$ €
- ❑ 2020 amendment to UGA-CNRS formal agreement
 - 2020 funding instalment in May 2020
- ❑ New amendment to UGA-CNRS agreement required for 2021-2014
 - Pre-requisite: Idex confirmation, delayed by pandemic
 - DR11 decided to lend 2 M€ provision in December 2020
- ❑ Idex confirmed in July 2021
 - Labex management transferred from ANR to Idex
 - UGA-CNRS amendment still pending
- ❑ Labex scheduled to end on 31/12/2024
 - Budget must be spent by that date
 - Exception: PhDs can extend to 2025

Calls for projects: PhD & postdocs

- ❑ Target: 14 2-year junior postdocs + 4 PhDs to support physics projects within WPs
 - 3 calls: 2020, 2021, 2022
 - 2020: 5 postdocs + 1 PhD
 - ATLAS (LAPP), Auger (LPSC, PhD), H.E.S.S. (LAPP), LSST (LPSC), NIKA2 (LPSC), theory (LAPTh)
 - 2021: 4 postdocs + 1 PhD
 - DUNE (LAPP), LHCb (LAPP), ATLAS (LPSC), theory (LPSC), ALICE (LPSC, PhD)
 - Welcome to our new Enigmass2 fellows: Carolina Arata, Fernando Arias-Aragón, Oliver Lantwin, Davide Miceli (2020 – delayed), Ana Peixoto + Irene Bachiller (delayed)
 - 2022 : 5 postdocs + 2 PhDs
- ❑ Timeline for 2022 call: launch 08/10/21, deadline 09/11/21, selection 08/12/21
- ❑ Projects assessed by external experts, selection done by management board
 - Scientific quality, strategic position, impact, feasibility & timing
- ❑ Teams are expected to follow instructions for hiring process!

Calls for Projects: R&D

- ❑ R&D for future detectors
 - Overall budget 340 k€
- ❑ 2022 call
 - 2 major projects, ≤ 140 k€ over 2022-2023, identified priorities: GW and CMB
 - 2-3 R&D booster projects, 10-15 k€ over 2022
- ❑ 4 proposals received and funded
 - Projects assessed by external experts, selection done by management board
 - Major projects
 - Building an in-vacuum seismically isolated optical bench at LAPP for R&D towards future gravitational wave detectors (WP2, L. Rolland): 140 k€
 - New generation lenses for next decade millimeter cosmology experiments (WP3, A. Catalano): 121 k€
 - R&D booster projects
 - ALICE FOCAL (WP1, R. Guernane): 15 k€
 - Evolution du banc de caractérisation de l'évaporation du CO₂ dans des micro-canaux pour le refroidissement de la prochaine génération de détecteurs silicium du FCC : MC2O2 (WP1, R. Kossakowski): 15 k€
- ❑ 2023 call
 - Only R&D booster projects, 50 k€ overall

Status of expenses

- ❑ Fraction of Enigmass2 budget committed so far: ~50%
 - With approved R&D projects and 2022 PhDs and postdocs: ~90%
- ❑ Schools
 - ESIPAP & GRASPA, ~30 k€/year
- ❑ Master internships
 - 2021-2024: funding 12 4-month internships/year
- ❑ Visiting scientists
 - None in 2020 and 2021, due to late budget & pandemic
 - Remaining funds ~37 k€
- ❑ Outreach
 - 2021: video + mallette Cosmix
 - Remaining funds: ~30 k€

ISC recommendations

- ❑ Enigmass2 ISC formed one year ago
 - Wolfgang Adam, Nabila Aghanim, Michael Krämer (chair), Martin Kunz, Teresa Montaruli, Federica Petricca
- ❑ First meeting held in January 2021
- ❑ Written report, with recommendations
 - Consider measures to further increase the synergies and to foster the collaboration between laboratories
 - Establish more concrete criteria for measuring success and, in particular, the added value of the network
 - Continue to foster the career of young scientists
 - Think about activities to further increase the visibility of the network and the participating institutions
 - Continue to work on the sustainability of the network in order to secure the outstanding scientific activities in the long term

Joint seminars

- ❑ Shared invitations to join some LPSC and LAPP seminars on Zoom
 - Thanks to Marie-Laure, Iro and David
 - May 27: COMET experiment, Cristina Carloganu (LPC Clermont)
 - June 24: The first result from the Muon $g-2$ experiment at Fermilab, On Kim (IBS/CAPP South Korea) + A custodial symmetry for $g-2$, Cédric Delaunay (LAPTh),
 - June 25: Test of Lepton Flavour universality : status, challenges and prospects, Renato Quagliani (EPFL)

International workshop opportunity

- ❑ On topics within Enigmass science program
- ❑ Held at one of the Enigmass sites, in 2023
- ❑ Enigmass funding could be ~10 k€
- ❑ Please think about it, we will collect proposals in the first half of 2022

Post-2024 future?

- ❑ First discussions within PAGE about possible research project within confirmed Idex
- ❑ But Idex guidance indicates UGA-only scope



Enjoy the meeting!