



Collaboration Life

Getting organized to work more efficiently together, in a respectful environment for people and the Earth.

> Kumiko Kotera - Institut d'Astrophysique de Paris - CNRS GRAND Collaboration Meeting - Warsaw U1 - 05/06/2025



Goals for 2025 in "Collaboration Life" - Nanjing May 2024



- Make progress on MoU
- Task force on Financial Structure (board, account...) ... 🛧 in progress
- Improve internal communication on projects Forge?…
- WBS & task distribution inside Forums

- (website, Twitter, FB)



ND	GR

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Pubcomm

Collaboration Meetings

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Work

Umbrella Forums End-to-end Pipeline

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Hardware Documentation

Software Documentation

Unit conventions

Logbooks



Board Affairs

Wiki page: https://www2-internet.iap.fr/grand/wikigrand/index.php?title=Organization

- MoU

Tanguy's Board Summary Talk

 Organization Chart • Policies Members • Funding & Finance



Organization chart - May 2025

Collaboration Board

Chair: Tanguy Pierog

Early Career Scientists Chair: ***

Education & Outreach Chair: ***

Data Management Committee François Legrand

Publication Committee Chair: Mauricio Bustamante

Conference Committee Chair: Haoning He

Carbon Committee Chair: Kumiko Kotera

Membership Committee Chair: Lech Piotrowski

Operations Committee Chair: Yi Zhang

Analysis Bruno Lago

> **Commis**sioning Data Analysis P. Ma

Detection Unit









The Collaboration Board

—> the Collaboration Board meets on the 2nd Monday of each month at 13:30 CET/20:30 China/9:30 Rio/7:30 EST

With voting power (18 members):

- Martina Bohacova, PI FZU
- Sijbrand de Jong, Pl Radboud U.
- João Torres de Mello Neto, PI UFRJ (deputy Bruno Lago)
- Krijn De Vries, PI VUB
- Guoyuan Huan, PI CUG
- Claire Guépin, PI LUPM (deputy Alexandre Marcowith)
- Kumiko Kotera, PI IAP (deputy Rafael Alves Batista), Chair of Carbon Committee
- Antonios Leisos, PI HOU (deputy Stavros Nonis)
- **Ruoyu Liu**, PI Nanjing U. (deputy Chao Zhang),
- Oscar Macias, PI SFSU
- **Olivier Martineau**, PI LPNHE (deputy François Legrand)
- Kohta Murase, PI PSU
- Lech Piotrowski, PI University of Warsaw, Chair of Membership Committee
- Markus Roth, PI KIT (Deputy Tim Huege)
- Charles Timmermans, PI Nikhef
- Xiang-Ping Wu, PI NAOC
- **Zhang Yi**, PI PMO (deputy Xiaoyuan Huang), **GP300 Project Manager** • Pengfei Zhang, PI Xidian U. (deputy Pr. Fengwei), GP300 Technical Project Manager

- Pls of each Member institute + Associate institutes
- Chairs of committees
- Project managers
- Collaboration Board Chair: Tanguy Pierog
- -> 23 members

Do not take part in votes:

- Tanguy Pierog, **Chair of Collaboration Board**
- Mauricio Bustamante, **Chair of Publication Committee**
- Haoning He, **Chair of Conference Committee**
- François Legrand, **Chair of Data Management** Committee
- Huang Yan, **GP300 Site Project Manager**
- ???? **Outreach & Education** Committee
- ????, **Early Career Scientist** Representative











GRAND MoU - signatures June 2025



A. Hellenic Open University (HOU)Parodos Aristotelous 18, 26335 Patras, Greece



B. Institut d'Astrophysique de Paris (IAP)
 CNRS/INSU et Sorbonne Université, 98 bis boulevard Arago, 75014 Paris, France



 C. Inter-University Institute For High Energies at the Vrije Universiteit Brussel (IIHE-VUB)
 Vrije Universiteit Brussel, Pleinlaan 2, 1050 Brussels, Belgium



D. Laboratoire de Physique Nucléaire et des Hautes Énergies (LPNHE) CNRS/IN2P3, Sorbonne Université, Université de Paris, 4 place Jussieu 75005 Paris, France



E. Laboratoire Univers et Particules de Montpellier (LUPM) CNRS/IN2P3, Pl. Eugène Bataillon, 34090 Montpellier, France



F. Nanjing University163 Xianlin Avenue, 210023, Nanjing, Jiangsu, China



G. National Astronomical Observatories, Chinese Academy of Sciences (NAOC) 20A Datun Road, Chaoyang District, Beijing 100101, China



H. **Pennsylvania State University** Center for Particle and Gravitational Astrophysics, Pennsylvania State University, University Park, PA 16802, USA



I. Purple Mountain Observatory (PMO) Chinese Academy of Sciences (CAS), No.10 Yuanhua Road, Qixia District, Nanjing 210023, China



San Francisco State University (SFSU) 1600 Holloway Avenue, ADM 469, San Francisco, CA 94132-1722



 K. Universidade Federal do Rio de Janeiro
 Av. Pedro Calmon, 550 - Cidade Universitária, Rio de Janeiro - RJ, 21941-901, Brazil



. University of Warsaw Krakowskie Przedmieście 26/28, 00-927 Warsaw, Poland



M. Xidian University

No. 2 South Taibai Road, Xi'an, Shaanxi 710071, China





History:

- 2022: 6 members
- 2023: 11 members
- 2024: 13 members

On-going:

- CGU
- FZU Prague

On hold:

- Radboud U.
- KIT
- Nice balance between continents
- More US involvement welcome
- Argentina?







Authorship policy revised this year http://www2-internet.iap.fr/grand/wikigrand/index.php?title=Policies_and_documents

General GRAND MoU [edit]

- Version of 29/03/2024 signed by 13 institutes: File:GRAND MoU 2024 signed.pdf
- Version of 12/06/2023 signed by 11 institutes: File:GRAND MoU 2023 signed.pdf
- Version of 27/01/2022, signed by 6 institutes: File:GRAND MoU 2022 signed.pdf

Specific Agreements or MoU [edit]

International Agreement between 5 institutes on GRAND@Auger, 22/12/2022, File:2022agreement GRAND@Auger signed.pdf

Content of the GRAND Principles for Organization and Management [edit]

GRAND Membership Policy [edit]

The GRAND Membership Policy approved by the Collaboration Board on 11/04/2022: File: GRAND membership 2022.pdf.

GRAND Publications & Authorship Policy [edit]



The GRAND publications & authorship policy was approved by the Collaboration Board on 17/04/2023: File:GRAND authorship policy.pdf. Ancillary policies:

- Guidelines for few-author papers of GRAND Collaboration members: File:Few-author paper guidelines grand approved v1 2024-05-13.pdf
- Instructions for the use of figures approved for public viewing by the GRAND Collaboration File:Grand figure approval v1 2024-05-13.pdf

GRAND Code of conduct [edit]

The GRAND Code of conduct was approved by the Collaboration Board on 12/06/2023: File:GRAND Code of Conduct 2024 06 04.pdf.

GRAND Green Policy [edit]

The Green Policy, which was voted and approved by the core-team meeting on January 21, 2022, can be downloaded here: File:GRAND Green Policy signed.pdf.

On geographical maps [edit]

The following document on rules to follow when showing maps for the Collaboration was approved by the Collaboration Board on 12/12/2022: File:Geographical maps.pdf.

GRAND Speaker Selection Procedure [edit]

The GRAND Speaker selection procedure was approved by the Collaboration Board on Feb. 13, 2023. It can be downloaded here s.

GRAND Early Career Scientist Policy [edit]

The ECS policy was approved by the Collaboration Board on July 10, 2023. It can be downloaded here: File:23 07 10 ECS.pdf.





GRAND Code of Conduct

The Giant Radio Array for Neutrino Detection Collaboration

Code of Conduct

Approved by the GRAND Collaboration Board on 12/06/2023

Preamble

The GRAND Collaboration strives to create a thriving, ethical, and professional environment to promote scientific advancement, cooperation, and personal growth. The following elements are the building blocks of GRAND workplace culture:

- **Respect:** To respect the dignity, worth, equality, cultural differences, and privacy of all members of the Collaboration.
- Scientific Integrity: To ensure honesty, transparency, reproducibility, and scientific rigor of research and other scientific activities. Take responsibility for one's actions, decisions, and their consequences.
- **Open Communication and Civility:** To create a constructive and cooperative atmosphere based on mutual trust, and to discuss issues openly and free of the fear of negative feedback. When responding to something with disagreement, remember to criticize ideas, not people.
- **Professional Commitment**: To demonstrate a high level of professionalism and loyalty to the collaboration, its mandate and scientific objectives.
- **Diversity and Inclusivity**: To accept the plethora of innovative ideas and perspectives a diverse community has to offer and empower each member to participate and contribute to it.

The Collaboration has **zero tolerance** for **harassment or bullying** by and/or of its members in any form.

Definitions of Harassments

For the purposes of this document, the GRAND Collaboration adopts the definition of sexual harassment and other types of harassment of the Anti-Harassment Policy for Meetings and Activities of the American Astronomical Society and Divisions (<u>http://aas.org/policies/antiharassmentpolicy</u>).

• Sexual Harassment: "refers to unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature. Behavior and language that are welcome/acceptable to one person may be unwelcome/offensive to another. This is

Pragati Mitra and Ruoyu Liu

Available on the Wiki here!

"If you are a victim or witness of any sort of harassment or violation of the code of conduct defined in this document please contact immediately the GRAND ombudspersons (contacts below). They will evaluate the claim and transfer it to the Collaboration Board. For further help and support you can also reach out to your supervisor/PI."

GRAND ombudspersons: **Ruoyu Liu: ryliu@nju.edu.cn Kewen Zhang: kwzhang@pmo.ac.cn Kumiko Kotera: kotera@iap.fr**





This meeting is in line with our Travel/Meeting policy.

Collaboration meetings will be held as much as possible at locations inducing lesser environmental impact in terms of travel, and/or using geographical hubs (typically, one in China, one in Europe, one in the USA and one in Latin America).

GRAND evaluates its environmental impact.

GRAND Carbon Footprint Study:

Aujoux, KK, Blanchard <u>arXiv:2101.02049</u> (Astroparticle Physics) arxiv:2105.04610 (Nature)

One R&D goal: reduce the environmental impact of the detector

Life cycle analysis of the GRAND detection units

Vargas Ibanez, KK, Blanchard, Zwolinski et al., 2023 <u>https://arxiv.org/abs/2309.12282</u> (Astroparticle Physics)

GRAND Green Policy (v1)

The GRAND collaboration is committed to environmental awareness. We will endeavor to continually improve our environmental performance as an integral part of the development and operating procedures of the GRAND experiment. We outline below a set of guidelines which the GRAND Collaboration promotes and commits to follow to the best of its capabilities.

1. Travel

Whenever possible, on-site missions will be performed by local collaborators. Missions will preferably be combined with other visits or events to be held close-by.

- b. Collaboration meetings will be held as much as possible at locations inducing lesser environmental impact in terms of travel, and/or using geographical hubs (typically, one in China, one in Europe, one in the USA and one in Latin America).
- c. Collaboration lunches/buffets and coffee breaks will be low-waste and will offer a balanced proposition of vegetarian dishes.

2. Digital

- a. The collaboration will work on strategies to reduce the environmental impact of data handling (e.g., by reducing the data volume), without compromising a FAIR data management policy.
- b. Data will be stored as much as possible in low-carbon-emitting data centers.
- c. A common simulation data library will be built to prevent multiple production and storage.
- d. The collaboration will work on establishing guidelines and incentives to run and store selected simulations, by weighing the cost/benefit of runs.
- e. The collaboration recommends to all its members to use electronic devices (laptops, tablets, monitors, ...) longer than 5 years, and to consider the 'repairability index' before choosing new electronic devices.

3. Hardware

- a. The size and weight of the detection units will be optimized, to use and transport less material
- b. The collaboration will favor local production for the hardware components.
- c. The collaboration will endeavor to reduce the electrical consumption of the detection units.
- d. The environmental impact will be included in the tendering process of production and purchasing of goods.
- e. Any installation will minimize the impact on wildlife.
- The collaboration will follow the technological progress on solar panels and batteries and include the environmental impact from the production and disposal in the choice of hardware components.
- g. The collaboration will establish a recycling plan for all hardware material produced and deployed.

Last reviewed: 21/01/2022

Signatures:

VAin

Kumiko Kotera

Olivier Martineau Xiang-Ping Wu Co-spokespersons of the GRAND collaboration





Reducing our environmental impa



What to do on digital?

- data storage/transfer related to energy production —> might improve by itself if energy becomes more green in China - work on data volume reduction
- common simulation libraries

Start improving

For antenna produc

- reduce structure
- change alloy, use stainless steel
- compare battery lifetime, secondary batteries?

3	ct	

			re		
	Antenna structure	Raw material production (extraction)	Total/net (including all components and processes)		
Antenna:		Climate Change	[kg CO2eq]		
raduca mass $(**\%)$	Base case X5CrNiMo18 (316)	239649.43	282015.80		
	Alloy 1 X5CrNi18 (304)	229170.75	268695.30		
change alloy (68%)	Alloy 2 X20Cr13 (420)	146834.08	186358.63		
use of secondary stainless steel (99%)Stainless Steel (secondary)	56667.74	91552.11		
		Ressource use, fossils [MJ]			
. Rattorios	Base case X5CrNiMo18 (316)	3290049.95	3678502.85		
	Alloy 1 X5CrNi18 (304)	3146177.23	3493535.40		
Improve lifetime	Alloy 2 X20Cr13 (420)	1999582.65	2346940.82		
use of secondary batteries (40%)	Stainless Steel (secondary)	908311.97	1385277.37		
		Ressource use, i	minerals and metals [
· Recycling PV nanals	Base case X5CrNiMo18 (316)	11.60	11.60		
	Alloy 1 X5CrNi18 (304)	1.94	1.94		
 Evaluate manufacturing options 	Alloy 2 X20Cr13 (420)	3.98	3.97		
for Print Circuit Board (50%)	Stainless Steel (secondary)	0.01	0.01		
 Improve supply chain (3%) 		Acidification [mol H+ eq]			
1 117	Base case X5CrNiMo18 (316)	841.15	936.53		
	Alloy 1 X5CrNi18 (304)	675.27	763.35		
	Alloy 2 X20Cr13 (420)	642.97	731.05		
mproving on hardware	Stainless Steel (secondary)	98.85	210.65		
		Ionizing radiation	n, human health [kBq		
	Base case X5CrNiMo18 (316)	106.47	4019.62		
nna production for GP300:	Alloy 1 X5CrNi18 (304)	109.43	4013.06		
o structuro mass?	Alloy 2 X20Cr13 (420)	156.69	4060.33		
e structure mass:	Stainless Steel (secondary)	156.73	3111.96		
e alloy, use secondary			L		

Table 4: Influence of using different stainless steel alloys for the antenna structure on the environmental impact. *AAPD [%]: Average absolute percentage deviation.

GRAND & geopolitics

example of sub-array locations

example of sub-array locations

GRAND & geopolitics: public statements

- international collaboration
- several geographical sites involved
- geopolitical inquiries inevitable
- in case of doubts about geopolitical lacksquarestatements / phrasing concerning GRAND, please ask the Spokespersons (Kumiko, Olivier, Xiang-Ping)

Principles for the Organization and Management [excerpt]

[date]

Sensitive geographical maps

The GRAND Collaboration aims at maintaining a broad international outlook and an understanding of the international community as a whole. Geographical maps presented on behalf of the GRAND Collaboration, or in relation to the GRAND Collaboration (in presentation slides, published or internal documents, etc.) should be drawn and labeled with care.

In general, geographical maps serve to indicate the location(s) of GRAND and its participating institutes. The use of political maps should be avoided. Examples of maps to be used are presented in Figure 1. In case of doubt, the GRAND publication committee should be consulted.

Speakers Selection Procedure Available on the Wiki here!

In tight collaboration with Pubcomm (Mauricio Bustamante) for slides & proceedings validation

Committee role:

- establish guidelines for choosing speakers, to be reviewed by the board
- select speakers for invited conferences following guidelines
- select speakers if several volunteer for a given conference
- organise the talks and visibility of GRAND for big conferences (ICRC)

before talks:

- abstract & slides to be sent to Publication Committee chair (Mauricio) ahead of the talk.
- Conference committee chair sends material to prepare talks, with links to the wiki pages (see top of http://www2-internet.iap.fr/grand/wikigrand/index.php?title=Conferences)

after talks:

- send talk + abstract to Conf. committee chair --> will be uploaded on wiki
- send proceeding to the Publication Committee for review

Haoning's Conference Summary talk

Conference Committee

- Chair: Haoning He (PMO)
- Committee:

Rogerio Meneses de Almeida (Rio) Markus Roth (KIT)

GRAND Authorship policy

- New! Short Author list guideline
- New! Figures validation procedure
- To be discussed more: use of simulation data in publications

GRAND Policy on Publications, Presentations, and Authorship (Last updated: April 17, 2023)

Preamble

The Publications Committee

The Publications Committee oversees and coordinates the internal review process, submission of papers and proceedings reports as described in Sections 1 and 2.

The Collaboration Board appoints a Collaboration member to chair a Publications Committee. The period of office of the chair is 2 years, renewable, but at most 4 consecutive years. The duration is counted from the day the chair assumes office, independent of possible prior Publications Committee membership. The designated chairperson chooses three other members of the Publications Committee. The term of the members of the Publications Committee is 2 years, renewable, but at most 4 consecutive years. A later re-accession with the consensus of the chair is possible after a break of at least 2 years.

The Speakers Committee

Mauricio's Pubcomm Summary Talk

Available on the Wiki here!

GRAND membership policy

Lech's Membership Summary Talk

Non member institutions

- members agree to abide by the Membership Policy, the Publication Policy, the Green Policy, the Code of Conduct, and the Principles for the Organization and Management of GRAND. They also accept and agree to the terms of the GRAND MoU.
- members have direct access to raw data and are entitled to sign GRAND papers and to present GRAND results in conferences on behalf of the Collaboration + other rights

124 members

14 countries: Argentina, Belgium, Brazil, China, Czech Republic, Denmark, France, Germany, Greece, Japan, Netherlands, Norway, Poland, USA

44 institutions: Astrophysical Institute, Vrije Universiteit Brussel; CEA List, Université Paris-Saclay; CNRS/IN2P3 LPC, Université Clermont Auvergne; Center for Multimessenger Astrophysics, Pennsylvania State University; Centro Federal de Educação Tecnológica Celso Suckow da Fonseca; Department of Astronomy & Astrophysics, Pennsylvania State University; Department of Astronomy, School of Physics, Peking University; Department of Financial and Management Engineering, School of Engineering, University of the Aegean; Department of Mechanical and Electrical Engineering, Shandong Management University; Department of Physics and Astronomy, San Francisco State University; Faculty of Physics, University of Warsaw; GRAPPA Institute, University of Amsterdam; Hellenic Open University; High Energy Theory Group, Physics Department Brookhaven National Laboratory; IIHE/ELEM, Vrije Universiteit Brussel; Institut d'Astrophysique de Paris, CNRS UMR 7095, Sorbonne Universite; Institute for Astroparticle Physics, Karlsruhe Institute of Technology; Institute for Cosmic Ray Research, University of Tokyo; Institute for Mathematics, Astrophysics and Particle Physics, Radboud Universiteit; Institute of Experimental Particle Physics, Karlsruhe Institute of Technology; Institute of High Energy Physics, Chinese Academy of Sciences; Institute of Physics of the Czech Academy of Sciences; Instituto de Fisica La Plata, CONICET - UNLP; Instituto de Fisica, Universidade Federal do Rio de Janeiro; Institutt for fysikk, NTNU; Kavli Institute for Astronomy and Astrophysics, Peking University; Key Laboratory of Dark Matter and Space Astronomy, Purple Mountain Observatory, Chinese Academy of Sciences; Key laboratory of Modern Astronomy and Astrophysics, Nanjing University, Ministry of Education; LESIA, Observatoire de Paris, CNRS, PSL/SU/UPD/SPC; LUTH, Obs. de Paris CNRS Universite Paris Diderot, PSL Research University; Laboratoire Lagrange, Observatoire de la Côte d'Azur, Universite Côte d'Azur, CNRS; Laboratoire Univers et Particules de Montpellier, Université Montpellier, CNRS/IN2P3; Nationaal Instituut voor Kernfysica en Hoge Energie Fysica; National Astronomical Observatories, Chinese Academy of Sciences; Niels Bohr International Academy, Niels Bohr Institute, University of Copenhagen; Purple Mountain Observatory, Chinese Academy of Sciences; SUBATECH, Institut Mines-Telecom Atlantique, CNRS/IN2P3, Universite de Nantes; School of Astronomy and Space Science, Nanjing University; School of Electronic Engineering, Xidian University; School of Physics and Astronomy, Sun Yat-sen University; Shanghai Astronomical Observatory, Chinese Academy of Sciences; Tsung-Dao Lee Institute & School of Physics and Astronomy, Shanghai Jiao Tong University; Universite Paris Diderot, Sorbonne Paris Cite, CNRS Laboratoire de Physique Nucleaire et de Hautes Energies; University of Science and Technology of China

—> Lech is updating NOW the membership list. Send him NOW of the member list of your institute!

Reminder: Steps for new GRAND members (including students!)

http://www2-internet.iap.fr/grand/wikigrand/index.php?title=For_new_members

- **Inform the Chair of Membership Committee**, <grand-membership@in2p3.fr> and propose a collaboration subject NB: for students/postdocs, membership is immediate, for researchers and institutes, the committee will discuss the application
- 2. Join a working group: write to the chair of working groups to be added to the corresponding email list

Work in progress:

- Formalize Membership update discussions • Vouching for non-institutional members? • Membership fees?

Lech's Membership Summary Talk

• China:

NAOC, CAS 10M RMB (< 2024) —> equipment and site survey 100k (2024) —> travel PMO, CAS 700k RMB (2024) \rightarrow equipment + installation GP300 ; 200k RMB (2024) \rightarrow travel Xidian U. "111 project" 300k RMB/yr —> travel (2028), "Free Development Fund" 450k RMB (2025); 400k RMB equipment (2025); 380k RMB (2025) Research on Nanosecond-level Synchronization Technology for Large-scale Arrays Based on RF Wireless Beacon 2M RMB (50% GRAND) —> submitted CUG Scientifc Research Funds at China University of Geosciences (10-20% GRAND) 55k€ (2028) CUG Young Scientists Fund of the National Natural Science Foundation of China (30% GRAND) 30k€ (2028)

- **Brazil**: (50% GRAND) FAPERJ (\$7k/yr - 2024), CNpQ (\$37k, 2027) —> travel, equipment
- USA:

NSF: \$250k (SFSU) 100% GRAND —> Travel+Masters students+Equipment (2026) ERC, 14M€ —> submitted *joint with France & PSU & Spain*

• Denmark:

Villum Fonden (10% GRAND). 1.3M€ (2026)

Independent Research Fund Denmark Research Project 1, 300k€ —> submitted

• France:

ANR: 306k€ (2025) —> personnel, equipment (G@Nançay) joint with KIT ANR: 35k€ (2027) —> travel and preparation for GRAND-BEACON CNRS INTERCOS (30% GRAND): ~7.2k€ —> travel (2024-2026) CNRS joint PhD: 1 PhD + 30k€ *joint with ICRR* ERC, 14M€ —> submitted *joint with USC & PSU* ANR 2023 1.1M€ —> submitted, *IAP-LPNHE-LUPM-CEA-OCA*

• Germany:

DFG: ~300k€ (2025) —> personnel, travel *joint with LPNHE-IAP*

• Greece:

HOU, 60k€ —> personnel + travel

Hellenic Foundation for Research & Innovation, 90k€ —> submitted Greek Ministry of Education Religious Affairs and Sports, 200k€ —> submitted

• Poland:

"Polish Returns" National Agency of Academic Exchange (NAWA) (2020-2025) ~415 k€ OPUS-23 programme from National Science Centre (NCN) (2023-2025) 101 k€

Unsuccessful so far

- Brasil-France: PHC COFFECUB 2024 *joint UFRJ-IAP-LPNHE*
- Poland: National Science Centre OPUS 2021, 2024
- USA: Kauffman: \$300k (PSU)
- Greece: Hellenic Foundation for Research & Innovation: 300k
- China: Research for the radio detection technique for EAS (Xidian): 1M RMB

Apply for funding individually or in a network for GRAND!

Approach your Institute PI, the Board, the Spokes

We can help with general GRANDrelated content, brainstorming, proof-reading

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- Meetings
- Internal Tools

Umbrella Forums & WG organization

• Publications & Conferences • External communication & Media

Umbrella Meetings: 1st Monday of each month at 2pm CET/9pm Forum Chairs + Project And Anthen Engrand Selcome: WG Chairs + Board Members

Aachine earning ene Ferrière	Science Rafael Alves Batista	Simulations Matías Tueros	Software Lech Piotrowsk
5pm CET y 2 weeks Working	2nd Tue of month 1:30pm CET Groups 2 months		Tue 3pm CET every 2 weeks
GP-China WBS P. Zhang ts <u>Gus</u> to	Layout EaGhitforum NUM T. Huang be impleinerret	ger BEACON BEACON BEACON BEACON BEACON BEACON BEACON BEACON BEACON BEACON BEACON BEACON BEACON BEACON BEACON BEACON Ser BEACON CON BEACON CON BEACON CON BEACON CON BEACON CON BEACON CON BEACON CON BEACON CON CON BEACON CON CON CON CON CON CON CON CON CON	CR Analysis S pipeline M. Bustamante
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Internal Collaborative Tools

Collaboration

For new members

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Analysis

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Pipeline Readme

Simulation and Library

GRAND Data Structure for dummies

Software on GitHub

Resources

White Paper Presentations Publications Unit conventions **GRAND** Wiki (please use & update!) for official material (admin, general organization chart, members...)

GRAND Mattermost

GRAND Forge

for Forums, WGs, project-oriented development + all notes repo

GRAND Box

account with cc-in2p3 documents editable by board or whole collaboration meeting agenda, FAQ, pubcomm plots, picture repo...

GRAND-mother (github)

https://grand-mother.github.io/

GRAND domain

https://grand-observatory.org incl. data monitoring

get an account: write to <u>F. Legrand</u>

Monthly Calls

3rd Monday of each month at 2pm CET/9pm China/10am Rio/8am EST Chair: Tanguy Pierog

Spokespersons Olivier or Kumiko

• Make a short status of the project/collaboration life

Forum Chairs

Working Group Leaders

• If you would like to give a presentation at the GRAND Call, contact the Meeting Chair (Tanguy) + cc. Chair of the closest Forum

Other spontaneous talks are also possible contact the Meeting Chair, Tanguy Pierog

 Make a short (5-10 min) summary of the Forum progress AND/OR • Select a highlight topic to be presented by a member of the WG

Outreach & social media

GRAND Website (send contributions!) grand-observatory.org webmasters & editors: ???, Kumiko sys-admin: Fred Magnard

New Outreach & Education Chair?

GRAND Facebook (please send contributions!)

GRAND - Giant Radio Array for Neutrino Detection facebook 144 likes · 143 followers

Media Coverage in major French media

• Le Monde, Le Point Pour la Science, Science & Vie, Science & Avenir • GEO, Forbes, CNRS Journal France Inter, France Culture (Radio) at the French Senate :-)

 Procedure of approval for Social Media content How to encourage contributions? • Website to be cleaned up...

Points to be discussed

- Internal frictions / projects / publications
- Forum system: need to be more proactive in Analysis / Bruno efforts
- Is Forge a good tool for sharing?
- Not enough software contributors
- DAQ not accessible from outside for non-PMO members
- Geopolitical tensions
- Gender balance

Ideas (redacted by Mauricio)

- month. \longrightarrow incentive not to let work stall.
- paper. \rightarrow incentive for members to work on Collaboration papers.
- broadly within the different groups of the Collaboration.

• Have people working on Collaboration analyses present their progress in analysis calls at least once a

• Require either to write a Collaboration paper or doing service work if one wants to publish a few-author

Discussed as part of the revisions to the publications policy, but has not been approved by the Board yet • The membership fee can also be a way to more officially attribute "ownership" of the experiment more

