

GRAND Publications Committee

Mauricio Bustamante

Niels Bohr Institute, University of Copenhagen

GRAND Collaboration Meeting
Warsaw, June 04, 2025

UNIVERSITY OF
COPENHAGEN



VILLUM FONDEN





Policies and documents

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Publications and authorship policy

Find them in the wiki

GRAND Memorandum of Understanding (MoU) [edit]

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](#)

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Main publications and authorship policy

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

The Speakers Committee oversees and coordinates the presentation of GRAND results by Collaboration members in conference presentations, as described in Section 4.

The Spokesperson, with concurrence of the Collaboration Board, appoints a Collaboration member to chair a Speakers 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 Speakers Committee membership. The designated chairperson chooses three other members of this Speakers Committee. The term of the members of the Speakers 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. A rapid decision channel (chair + spokesperson) can be enabled if there is insufficient time to involve the whole Speakers Committee.

1. Publications: general considerations

1.1 Peer-reviewed journal articles authored by the Collaboration

Results obtained by the Collaboration are to be submitted for publication in refereed journals. Drafts of research results are prepared by the analysis teams; drafts of papers on technical matters are prepared

Ancillary policy Few-author papers

Guidelines for few-author papers of GRAND Collaboration members

Guidelines for few-author papers of GRAND Collaboration members

Document history
v1 (this version): Version approved by the Collaboration Board on May 13, 2024

The GRAND Policy on Publications, Presentations, and Authorship (version of April 17, 2023), states the following on the issue of few-author papers:

"Collaboration members authoring or co-authoring publications which relate to GRAND, including, but not limited to, publications that use public or non-public information, that rely on internal discussions within GRAND, or that use GRAND infrastructure (hardware or software), must submit to the GRAND Publications Committee the paper outline as early as possible and the manuscript no later than a week prior intended submission to arXiv or Journal. The Publications Committee may propose to the Collaboration Board that a full GRAND Collaboration author list and normal GRAND review procedure is required."

The guidelines on the next page attempt to give authors information about the most likely recommendation from the Publications Committee for a few common scenarios. If you are to start an analysis it can also give some guidance if you should continue to pursue the analysis with a few collaborators or as a GRAND Collaboration analysis.

Please keep in mind that each few-author paper is discussed individually and the decision to recommend it or not as a full Collaboration publication is taken on a case-by-case basis.

These guidelines and this document are closely inspired by the guidelines and document prepared by the IceCube Collaboration.

Ancillary policy Figure approval

Instructions for the use of figures approved for public viewing by the GRAND Collaboration

Instructions for the use of figures approved for public viewing by the GRAND Collaboration

Document history
v1 (this version): Version approved by the Collaboration Board on May 13, 2024

1. About this document

This document describes the policy on the use of figures that have been approved by GRAND Collaboration to be shown to non-members of the Collaboration, and on how to secure their approval.

The policy contained in this document is part of the GRAND Principles for Organization and Management. Any scenarios not contemplated in the present document are addressed in other policy documents of the Collaboration, the most relevant of which is the GRAND Publications & Authorship Policy.

The policy contained in this document applies to all members of the GRAND Collaboration.

2. Definition of an approved figure

An *approved figure* is a figure that has been produced by a member of the GRAND Collaboration, on behalf of the Collaboration, and has been deemed by the Collaboration as suitable to be shown publicly, *i.e.*, to non-Collaboration members.

For clarity, the text below refers only to approved figures. However, the contents of this document apply equally to approved figures, animations, videos, tables, and data files.

3. Need to use approved figures

Presentations and publications about GRAND that are produced on behalf of the GRAND Collaboration may only display figures (and other results) that have been approved by the Collaboration.

4. Who grants figure approval

The status of approved is granted to a figure exclusively by the Collaboration, after following the procedure detailed in point (9) below. Figure approval is granted collectively by the Collaboration.

5. Responsibility to secure figure approval

It is the responsibility of the Collaboration member that is producing the presentation or publication to ensure that all the figures shown by them have been approved by the Collaboration.

Three PubComm policy documents

Main publications and authorship policy

Ancillary policy

Few-author papers

Figure approval

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

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The Speakers Committee

The Speakers Committee oversees and coordinates the presentation of GRAND results by Collaboration members in conference presentations, as described in Section 4.

The Spokesperson is the designated chairperson of the Speakers Committee. The duration 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 Speakers Committee membership. The designated chairperson chooses three other members of this Speakers Committee. The term of the members of the Speakers Committee is 2 years, renewable, but at most 4 consecutive years. A break of at least 2 years is possible after a break of at least 2 years. A designated chairperson (chair + spokesperson) can be enabled if there is insufficient time to involve the whole Speakers Committee.

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Instructions for the use of figures approved for public viewing by the GRAND Collaboration

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Three PubComm policy documents

Main publications and authorship policy

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

Preamble

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Instructions for the use of figures approved for public viewing by the GRAND Collaboration

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Establishes the review and approval procedures to follow before new results can be shown publicly in talks, proceedings, and refereed papers

1. About this document
This document describes the procedures to follow by GRAND Collaboration to be shown to non-members of the Collaboration, and on how to secure their approval.

The policy contained in this document applies to all members of the GRAND Collaboration. An approved figure is a figure that has been produced by a member of the GRAND Collaboration, on behalf of the Collaboration, and has been deemed by the Collaboration as suitable to be shown publicly, i.e., to the Collaboration members.

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3. Need to use approved figures

Presentations and publications about GRAND that are produced on behalf of the GRAND Collaboration are to be approved by the Collaboration before being shown publicly.

4. Who grants figure approval

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Pubcomm

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The PubComm wiki is our main tool to organize the internal review of:

- slides
- posters
- conference proceedings
- journal papers

Notes:

- PubComm does not review theses
- Collaboration papers receive full review
- Few-author papers undergo a week-long feedback period

[About the pubcomm & instructions](#) [edit]

Composition of the publications committee [edit]

Pubcomm composition last updated: May 2023

Chair: Mauricio Bustamante (mbustamante@nbi.ku.dk)

Pool of reviewers: See tables below

Deciding between short-author-list and long-author-list papers [edit]

Each contribution under review has its own dedicated entry

[\[Collapse\]](#)

Code	Conference	Author(s)	Title (click for abstract, reviews, etc.)	Draft (pdf)	Contribution type	Paper type	Reviewed by (click review)	Draft expected	Deadline feedback	Deadline conf. subm.	Status	Notes	Last updated
25_de-errico_02_pr	7th International Symposium on Ultra High Energy Cosmic Rays	1. Beatriz de Errico 2. Kumiko Kotera	GRAND: Status and Perspectives	[v2] [v1]	Oral	Collaboration	Reviews (click): ✓ 1. Mauricio Bustamante	28/01/2025	05/02/2024	07/02/2025	Closed: Review completed	Review slides 24_de-errico_03_sl too ↓	11/02/2025
25_de-errico_01_pr	7th International Symposium on Ultra High Energy Cosmic Rays	1. Beatriz de Errico	GRAND@Auger: status and first results	[v2] [v1]	Poster	Collaboration	Reviews (click): ✓ 1. Mauricio Bustamante	28/01/2025	05/02/2024	07/02/2025	Open: Review completed	Review poster 24_de-errico_01_po too ↓	11/02/2025

Unique code →

Author(s)

Title

Draft
version
historyPaper
type

Reviewers

Status



Pubcomm review: 24 grand 03

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- 4 11/05/2024: Review of outline v1 from Reviewer 1 (Olivier Martineau)
 - 4.1 14/05/2024: Reply from paper leaders
- 5 10/05/2024: Review of outline v1 from Reviewer 3 (Mauricio Bustamante)
 - 5.1 14/05/2024: Reply from paper leaders
- 6 06/05/2024: Review of outline v1 from Reviewer 2 (Kumiko Kotera)
 - 6.1 14/05/2024: Reply from paper leaders
- 7 03/05/2024: Message from paper leaders for reviewers about outline v1
- 8 26/04/2024: Merging with 24_grand_01 and 24_grand_02 into 24_grand_03
- 9 Review history

Most entries have a detailed history of review

[Return to the Pubcomm main page](#)

Created: 26/04/2024 (Mauricio Bustamante) / *Last updated:* 03/06/2024 (Mauricio Bustamante)

Status: *Open: v1 avail. for review*

Contribution information [edit]

Title: GRAND Prototypes: GRANDProto300 and GRAND@Auger

Abstract: TBD

Draft (pdf): [\[out v1\]](#) [\[v1\]](#)

Journal: TBD

Contact person(s): 1. Beatriz de Errico 2. Shen Wang

Paper type: Collaboration

Reviewers: 1. Olivier Martineau 2. Kumiko Kotera 3. Mauricio Bustamante 4. João Torres de Mello Neto 5. Peter Denton

Associated review: [24_grand_01](#), [24_grand_02](#)

02/06/2024: Review of v1 from Reviewer 5 (Peter Denton) [edit]

Sent to pubcomm: 02/06/2024 / *Added here:* 03/06/2024

One minor suggestion:

Talks

Status of the GRAND project [Olivier]

The GRAND@Auger Prototype for the Giant Radio Array for Neutrino Detection [João]

The Hybrid Elevated Radio Observatory for Neutrinos (HERON) Project [Kumiko]

Search for cosmic rays in GRANDProto300 [Jolan]

Electric Field for Radio Detection of Inclined Air Showers in Three Polarizations [Kewen]

Progress of the GRANDProto300 Project [Yi Zhang]

Posters

GRANDlib: A simulation pipeline for the Giant Radio Array for Neutrino Detection (GRAND) [Lech]

NUTRIG: Development of a Novel Radio Self-Trigger for GRAND [Pablo]

Reconstruction of inclined cosmic ray properties with GRANDlike data [Marion]

Reconstruction of cosmic-ray properties with uncertainty estimation using GNNs in GRAND [Arsène]

Denoising Radio Pulses from Air Showers Using Machine Learning Methods [Aurélien]

Calculation of the Exposure of GRANDProto300 to Cosmic Rays [Sei]

Optimizing HERON for 100 PeV Neutrino Detection [Andrew Zeolla]

Few-author posters


Signal Model and Energy Recon. for Radio Det. of Inc. Air Showers in 50-200 MHz Freq. Band [Lukas]

ML composition discrimination [Washington]

6 talks + 7 posters

vs. 2023:

3 talks + 7 posters

- ▶ Geneva, July 15–24
- ▶ Important dates (**internal** and **official**):
 - ▶ ~~January 15~~: working group (WG) chairs send proposed topics, speakers to pubcomm
 - ▶ ~~January 17~~: final date for WG chairs to confirm proposed topics and speakers
 - ▶ ~~January 18~~: pubcomm contacts speakers directly to confirm participation
 - ▶ ~~January 24~~: internal deadline for abstract submission for internal review
 - ▶ ~~February 21~~: end of internal abstract review
 - ▶ ~~March 14~~: abstract submission deadline
 - ▶ ~~April 30~~: early registration deadline
 -  ▶ **June 13**: internal deadline for authors to submit proceeding to pubcomm for internal review
 - ▶ **June 27**: internal deadline for reviewers to send reports about proceedings
 - ▶ **July 01**: start of final 48-hour pre-submission internal review of proceedings
 - ▶ **July 01**: internal deadline for authors to submit slides to pubcomm for internal review
 - ▶ **July 05**: official deadline for preliminary proceeding submission
 - ▶ **July 10**: internal deadline for reviewers to send reports about slides
 - ▶ **July 15**: start of the conference
 - ▶ **September 16**: official deadline for final proceeding submission

ICRC 2025: proceedings

- ▶ **Proceeding drafts due in pubcomm: June 13**
- ▶ Use the ICRC PoS LaTeX template PubComm sent:
www.overleaf.com/read/qnrboxwcfwrpr#fd20f4
- ▶ Clone the Overleaft project and edit
- ▶ Instructions: see p. 2 of the template
(also: my e-mail to grand-in on May 17)
- ▶ Each draft will be assigned 1 or 2 reviewers
- ▶ Reviewer reports due **June 27**
- ▶ Revised proceeding draft due **July 01**
- ▶ Proceedings will be sent to the ICRC
and uploaded to arXiv on **July 05**



Title of Contribution

**Name1 Surname1^{a,*} Name2 Surname2^a and Name3 Surname3^{a,b} for the
GRAND Collaboration**

(a complete list of authors can be found at the end of the proceedings)

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*The 39th International Cosmic Ray Conference (ICRC2025)
14 – 24 July, 2025
Geneva, Switzerland*

*Speaker

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ISSN 1824-8039. Published by SISSA Medialab.

<https://pos.sissa.it/>

ICRC 2025: new figure approval

- ▶ All new figures in ICRC proceedings and slides **must** receive **second-tier approval**
- ▶ First-tier approval: approval within forum
- ▶ **Second-tier approval**: approval in an umbrella meeting
- ▶ Can use today's umbrella meeting here in Warsaw to seek figure approval
- ▶ If you cannot seek approval in that umbrella meeting, contact pubcomm by **June 13**
- ▶ Late requests for approval **are not guaranteed to be granted**
- ▶ More information: see GRAND figure usage guidelines [here](#)

GRAND prototypes paper

- ▶ First full draft now available! [wiki: [24 grand 03](#)]
 - ▶ Paper leaders: Beatriz & Shen
 - ▶ Thanks to everyone that contributed new measurements, new plots, *etc.*: Stavros, Xu Xin, Pengfei, Pengxiong + others!
 - ▶ **Status:** draft v1 under review
 - ▶ Two dedicated reviewers: João & Olivier
 - ▶ Also open to feedback from the full Collaboration
- Deadline to send feedback to PubComm: June 16**
- ▶ Plan to upload the paper to the arXiv before the start of the ICRC (July 14)

GRAND Prototypes: GRANDProto300 and GRAND@Auger

The GRAND Collaboration

Abstract

The Giant Radio Array for Neutrino Detection (GRAND) Collaboration aims to probe ultra high energy (UHE) messengers, more specifically detect UHE neutrinos and hopefully start neutrino astronomy. For this, radio detection of air showers is explored with proposed self triggered radio antenna arrays, measuring events in the 50-200 MHz range. GRAND is being built and validated in stages, with its first prototype arrays deployed in 2023 at different locations around the world. GRANDProto300, in China, aims to detect cosmic rays in the 100 PeV to 1 EeV range, validating the GRAND detection concept. GRAND@Auger, in Argentina, has the goal to cross-validate GRAND's detection and reconstruction methods with events measured in coincidence with the detectors from the Pierre Auger Observatory. GRAND@Nancay, in France, serves as an easy access testbench for the European laboratories. Together, these are the pathfinders for GRAND's later stage of 10,000-antenna arrays, one at each hemisphere. In this paper, the prototype arrays are reviewed, the GRAND detection concept is presented with both its hardware and software descriptions, the data management strategy is reported, and the first measured data are discussed.

Keywords: GRAND, Air showers, Radio Detector, Pierre Auger Observatory

1. Introduction

The Giant Radio Array for Neutrino Detection (GRAND) is an ultra-high energy (UHE) multi-messenger observatory. The Collaboration aims to reach the sensitivity needed to detect UHE neutrinos and to explore a rich science case (1). These goals are to be achieved with large arrays of self-triggered radio antennas spread around the world. GRAND is to be built and validated through stages. Currently, there are three prototype arrays deployed in 2023, all running in parallel: GRAND@Nancay in Nancay, France, GRANDProto300 in the Gobi desert in China, and GRAND@Auger in Malargüe, Argentina. GRAND's next stage will consist of two arrays of 10,000 antennas each, one in the northern and another on the southern hemisphere. The prototypes form the pathway to these larger arrays, with sets of corresponding specified goals. GRAND@Nancay is a small array of four antennas at the Nançay Radio Observatory. It was idealized as an easy access for European laboratories, facilitating testbenching of equipment and new ideas in design, trigger, and data acquisition. GRANDProto300 (GP300) will be the 300-antenna pathfinder for GRAND in the northern hemisphere, covering an area of 200 km². When fully deployed, it should detect UHE cosmic rays between 100 PeV and 1 EeV probing the galactic to extra-galactic transition region. The GP300 site is located north of Dunhuang, in a relatively radio quiet region in the 50 to 200 MHz range. By June 2023, the deployment of the first 13-antenna stage was completed. During its almost two years of operation, it has allowed the validation of the GRAND detection concept and the improvement of the system design. By May 2025, the first extension, from 13 to 65 antennas, was deployed. This 65-antenna stage is currently running and aims

to test the efficiency and purity of the detection of inclined air showers. The GRAND@Auger prototype (G@A) results from an agreement between the GRAND and Pierre Auger (Auger) Collaborations to repurpose 10 AERA (Auger Engineering Radio Array) stations in Argentina. The deployment was completed in August 2023, when the 10 Detection Units (DUs) were made operational by GRAND Collaboration teams with the aid of the local staff of the Pierre Auger Observatory. The superposition of GRAND's and Auger's detector arrays allows searches for air shower events in time coincidence at the setups. It is also ideal for the validation of GRAND's reconstruction performance through event-by-event comparisons with known Auger detected air showers. Furthermore, the G@A prototype equally validates the GRAND detection concept, which allows for cross-checks with GP300. During the deployment and commissioning phases, different configurations of the same instrumentation were chosen for each prototype array. This made it possible to evaluate various hardware and software performances, and thus better probe the options for the next stages. It was also made apparent that distinct site environments and hemispheres require specific characteristics of the setup, such as heat and moisture countermeasures, hibernation conditions, and tailored trigger settings, which hinder having a common setup to all sites. Such conclusions are of special relevance given GRAND's final goals, although they make the prototype's commissioning more challenging. In this paper, an overview of the 13 and 65-antenna stages of GP300 and of G@A is given, as well as a presentation of their first data. The performance of both setups are compared, taking into consideration that the commissioning phase for GP300's 65-antenna stage is not yet completed. The sites and array lay-

Preprint submitted to -

May 31, 2025

Publications policy discussion: corresponding authors

Our current publications policy (approved by the Board in 2023) states that

“Publications authored by the Collaboration do not feature corresponding authors nor do they highlight e-mail addresses of particular authors. However, the Collaboration Board is aware that, for the purposes of funding, employment, or otherwise, Members that were involved in a particular task or analysis related to GRAND may require this to be acknowledged. In those cases, the Member may request a letter from the Collaboration spokesperson (and, also, from other Collaboration members, if desired) detailing their specific contributions.”

Some members have expressed that this is not a suitable solution for them.

Do we want to reconsider? If yes, what would be the policy change?

Publications policy discussion: few-author papers 1/2

- ▶ Our current policy states that papers that use internal, unpublished GRAND resources (data, simulations, human resources) are by default Collaboration papers
- ▶ But, we *also* do not want to prevent members from writing few-author papers
 - ▶ GRAND few-author guidelines [wiki [here](#)]
 - ▶ If the proposed few-author paper uses internal GRAND resources that are deemed by the Board as non-essential or insufficient to support a Collaboration paper on their own, it can be allowed to be a few-author paper
- ▶ We are in the process of refining this policy and want your opinion

Publications policy discussion: few-author papers 2/2

Using internal, unpublished **GRAND experimental data:**

A proposed few-author paper that wishes to use internal, unpublished GRAND experimental data may only do so if the Board decides that these data do not contain or potentially contain results that would be of importance to the Collaboration to publish as a collective.

Publications policy discussion: few-author papers 2/2

Using internal, unpublished **GRAND experimental data**:

A proposed few-author paper that wishes to use internal, unpublished GRAND experimental data may only do so **if the Board decides that these data do not contain or potentially contain results that would be of importance to the Collaboration to publish as a collective.**

Using internal **GRAND simulations**:

Thanks to Matías for his suggestions!

A proposed few-author paper that wishes to use internal, unpublished GRAND simulations may only do so **if the simulations do not include the state-of-the-art GRAND detector response** in them (in the form of, *e.g.*, the radio-frequency chain of the experiment).

The Publications Committee chair will **invite Collaboration members that were heavily involved in the generation of the simulations in question to co-author** the proposed few-author paper.

Planning future GRAND papers

For today
(GP300, G@A)

- ▶ First GRAND cosmic-ray paper (When? Will we have the statistics? What to show?)
- ▶ Non-cosmic-ray papers? (Some ideas proposed on Monday's science session)

For the future (near + far)
(GRAND10k, HERON)

- ▶ Forecasts of discovery of UHE ν diffuse flux models in GRAND10k à la 2210.03756 (Yifei Li + Mauricio, to start)
- ▶ Estimate rate of backgrounds for neutrino Searches in detail
- ▶ Re-compute the GRAND neutrino effective area (basis for other studies)
- ▶ GRAND + BEACON: using BEACON to locate sources and GRAND to look deeper (smaller trials-factor correction)

Note: Not all of these papers will necessarily be Collaboration papers

Reminder: important dates

June 13:

Deadline for ICRC authors to send their
proceeding draft to PubComm

June 16:

Deadline for feedback on the GRAND prototypes paper