Quantum Gravity Signatures on Effective Theories: Phenomenological and Formal Aspects Application DMP

Questionnaire

The questions in this section should only be answered if you are currently applying for FWO funding.
Are you preparing an application for funding?

- No

DPIA

Have you performed a DPIA for the personal data processing activities for this project?

- Not applicable

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GDPR

Have you registered personal data processing activities for this project?

- Not applicable

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1. Research Data Summary

List and describe all datasets or research materials that you plan to generate/collect or reuse during your research project. For each dataset or data type (observational, experimental etc.), provide a short name & description (sufficient for yourself to know what data it is about), indicate whether the data are newly generated/collected or reused, digital or physical, also indicate the type of the data (the kind of content), its technical format (file extension), and an estimate of the upper limit of the volume of the data.

Dataset Name	Description	New or reused	Digital or Physical	Only for digital data — Digital Data Type	Only for digital data — Digital Data format	Only for digital data — Digital data volume (MB/GB/TB)	Only for physical data — Physical volume
Notes	Notes written during meeting and during research activity or production of manuscripts	Generate new data	Digital and Physical	Other	.text .txt .pdf	<1Gb	NA
Manuscripts	Manuscripts containing research findings and produced from "Notes"	Generate new data	Digital	Other	.text .txt .pdf	<1Gb	NA

If you reuse existing data, please specify the source, preferably by using a persistent identifier (e.g. DOI, Handle, URL etc.) per dataset or data type:

No data will be reused.

Are there any ethical issues concerning the creation and/or use of the data (e.g. experiments on humans or animals, dual use)? Describe these issues in the comment section. Please refer to specific datasets or data types when appropriate.

- No

Will you process personal data? If so, briefly describe the kind of personal data you will use in the comment section. Please refer to specific datasets or data types when appropriate.

- No

Does your work have potential for commercial valorization (e.g. tech transfer, for example spin-offs, commercial exploitation, …)? If so, please comment per dataset or data type where appropriate.

- No

Do existing 3rd party agreements restrict exploitation or dissemination of the data you (re)use (e.g. Material/Data transfer agreements/ research collaboration agreements)? If so, please explain in the comment section to what data they relate and what restrictions are in place.

- No

Are there any other legal issues, such as intellectual property rights and ownership, to be managed related to the data you (re)use? If so, please explain in the comment section to what data they relate and which restrictions will be asserted.

- No

2. Documentation and Metadata

Clearly describe what approach will be followed to capture the accompanying information necessary to keep data understandable and usable, for yourself and others, now and in the future (e.g., in terms of documentation levels and types required, procedures used, Electronic Lab Notebooks, README.txt files, Codebook.tsv etc. where this information is recorded).

Each instance of the dataset "Notes" will be organized according to date and topic, so that it is kept understandable. It will be kept up to date until the associated manuscript is produced. Beyond that time frame, the instance in the dataset "Notes" loses relevance. The dataset "Notes" is intended to be used only by myself.
The dataset "Manuscripts" consists of self-contained and self-explained, written published works. As such, it does not require further documentation.

Will a metadata standard be used to make it easier to find and reuse the data? If so, please specify (where appropriate per dataset or data type) which metadata standard will be used. If not, please specify (where appropriate per dataset or data type) which metadata will be created to make the data easier to find and reuse.

- No

The dataset "Notes" does not require metadata since it is intended to be used only by myself.
The dataset "Manuscript" will contain keywords to make data easier to find and reuse.

3. Data storage & back-up during the research project

Where will the data be stored?

The dataset "Notes" will be stored as follows: physical notes in the desk drawer of my office in the KU Leuven Physics and Astronomy department, digital notes are stored in the could editor overleaf.com
"Notes" transition into "Manuscripts" by being uploaded to arXiv.org, an open-access archive for mathematical work, where the manuscript remains freely accessible indefinitely. They will further be deposited in Lirias, in accordance with the FWO requirements, and submitted to journals for publication.

How will the data be backed up?

"Notes" do not need to be backed up, as their relevance is very short lived and as they are reproduceable.
Virtual copies of "Manuscripts" will be kept on a local hard drive and in the cloud (overleaf.com and personal DropBox).

Is there currently sufficient storage & backup capacity during the project? If yes, specify concisely.
If no or insufficient storage or backup capacities are available, then explain how this will be taken care of.

- Yes

The datasets I will be generating is of very small digital and physical size (<10 GB respectively one drawer full of notes at any given point in time). The maximum size of projects on overleaf.com is "unlimited" (see https://www.overleaf.com/learn/how-to/Overleaf_plan_limits)

How will you ensure that the data are securely stored and not accessed or modified by unauthorized persons?

All digital data is stored in online accounts (on overleaf.com, DropBox.com, Lirias, arXiv.org) and on devices (laptop, tablet) that are password protected.
All physical data is stored in my locked office in KU Leuven's Physics department.

What are the expected costs for data storage and backup during the research project? How will these costs be covered?

No costs is associated to data storage and backup.

4. Data preservation after the end of the research project

Which data will be retained for at least five years (or longer, in agreement with other retention policies that are applicable) after the end of the project? In case some data cannot be preserved, clearly state the reasons for this (e.g. legal or contractual restrictions, storage/budget issues, institutional policies...).

"Notes" will have lost their value after five years and will therefore not needed to be retained.
"Manuscripts" will be retained on arXiv.org, Lirias, and at the publishing journals indefinitely, i.e., beyond five years after the project has ended.

Where will these data be archived (stored and curated for the long-term)?

"Notes" will not be archived.
"Manuscripts" will be retained on arXiv.org, Lirias, and at the publishing journals indefinitely.

What are the expected costs for data preservation during the expected retention period? How will these costs be covered?

No costs are expected.

5. Data sharing and reuse

Will the data (or part of the data) be made available for reuse after/during the project? In the comment section please explain per dataset or data type which data will be made available.

- No (closed access)
- Yes, in an Open Access repository

"No (closed access)": The dataset "Notes" is only for my personal use during the production of manuscripts.
"Yes, in an Open Access repository": All of the dataset "Manuscripts" will be made available on the open-access pre-print server

arXiv.org on Lirias and at the publishing journal.

If access is restricted, please specify who will be able to access the data and under what conditions.

The data "Notes" will never be made available to the public, as it is for my own use.
The access of the data that is not for my personal use (i.e., of "Manuscripts") will not be restricted.

Are there any factors that restrict or prevent the sharing of (some of) the data (e.g. as defined in an agreement with a 3rd party, legal restrictions)? Please explain in the comment section per dataset or data type where appropriate.

- No

Where will the data be made available? If already known, please provide a repository per dataset or data type.

The data "Notes" will never be made available to the public.
The data "Manuscript" will be made available on arXiv.org, Lirias, and at the publishing journals.

When will the data be made available?

The data "Notes" will never be made available to the public.
"Manuscripts" are, by definition, notes that have been uploaded to arXiv.org and are therefore immediately and indefinitely available to the public.

Which data usage licenses are you going to provide? If none, please explain why.

Does not apply to "Notes".
"Manuscripts" on arxiv.org are either under "CC BY 4.0" or under "arXiv.org perpetual, non-exclusive license to distribute this article (Minimal rights required by arXiv.org) ".

Do you intend to add a PID/DOI/accession number to your dataset(s)? If already available, you have the option to provide it in the comment section.

- No

What are the expected costs for data sharing? How will these costs be covered?

No costs are expected.

6. Responsibilities

Who will manage data documentation and metadata during the research project?

Niccolò Cribiori, to the extent it is applicable

Who will manage data storage and backup during the research project?

Niccolò Cribiori, to the extent it is applicable

Who will manage data preservation and sharing?

Niccolò Cribiori, to the extent it is applicable

Who will update and implement this DMP?

Niccolò Cribiori, to the extent it is applicable