

Data Management Plan

1. Expected Data

The proposed work will result in several software products, specifically

- A new kaitai target for the awkward array data structure
- An additional release of the XIA python-based analysis library
- A prototype release of an analysis library for the Super Cryogenic Dark Matter Search data
- A release of the Ruby program that allows scanning through binary data

The proposed work will not generate new data. Instead, this work will use data already collected. Small, example datafiles may be prepared for inclusion with the software as test cases.

2. Data Format

The software source code and documentation will be stored in ASCII text files.

Small data files meant to allow testing of the software will be stored in their original, custom binary formats. The descriptions of these formats will be stored in ASCII text files per the data description standard.

The point of the software developed under this work is to provide easy access to data stored in non-standard formats; documentation for the use of this software will be heavily tested.

3. Access to Data and Data Sharing Practices and Policies

The software created by this project will be publically available for download

Data sharing refers to the release of data in response to a specific request from an interested party. Describe your policies for data sharing, including (if applicable) provisions for protection of intellectual property, national security, or other rights or requirements.

4. Policies for Re-Use, Re-Distribution

Describe your policies regarding the use of data provided via general access or sharing. For example, if you plan to provide data and images on your website, will the website contain disclaimers, or conditions regarding the use of the data in other publications or products? Describe these disclaimers and/or terms of use.

5. Archiving of Data

Describe how data will be archived and how preservation of access will be handled. For example, will hardcopy notebooks, instrument outputs, and physical samples be stored in a location where there are safeguards against fire or water damage? Is there a plan to transfer digitized information to new storage media or devised as technological standards or practices change? Will there be an easily accessible index that documents where all archived data are stored and how they can be accessed? How long will data be retained.