h5py_wrapper Documentation

Release 1.0.0

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This is the documentation of the h5py_wrapper.

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3.1 Supported data types

The wrapper stores the original data types of values of the dictionary in the produced hdf5 file. The following data types are supported:

- float
- int
- str
- tuple
- numpy.array
- numpy.int64 and numpy.float64
- list
- bool
- quantities.Quantity (see https://pypi.python.org/pypi/quantities)
- Lists, tuples and numpy.arrays up to arbitrary depths if all dimensions are uniform, e.g.

```
l = numpy.ones((3,3,3))
```

- Lists and tuples are required to contain the contain equal data types across one dimension. For instance, this raises an error

```
l = [[1,2], 'a']
```

- Lists, tuples and numpy.arrays with unequal dimensions with maximal depth 1.

```
l = [[1,2], [1]]
```

CHAPTER 4

Conversion from old releases

4.1 Conversion from old release versions

Release version 1.0.1 introduced some changes to the file format (see Release notes).

```
Conversion script to convert files from a previous
release version to the current version.

Usage: convert_h5file [-h|--help] [<files>...] [--save-backup] [-v|--verbose] [--
↪release=<version>]

Options:
    <files>  List of files to be converted, can be a file pattern
    --save-backup  save backup version of file in old file format [default: False].
    --release=<version>   release version used to create the file to be converted␣
↪[default: 0.0.1]
    -v, --verbose  print informative output to screen
    -h, --help     print this text
```

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