

`radiopy`: Handling astronomical radio observations with python

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1 Introduction

1.1 Purpose

When we conduct radio astronomical observations of the sky, we usually focus on targets of interest and observe them over specific frequency ranges. These observations yield a large amount of important data in their analysis, for which the `radiopy` package was initially developed to handle the various analysed properties (as well as their errors).

1.2 Dependencies

`radiopy` requires the following versions/libraries/modules:

- Python 3 (tested with version 3.6.7)
- numpy (tested with version 1.15.1)
- scipy (tested with version 1.1.0)
- matplotlib (tested with version 2.2.3)
- uncertainties (tested with version 3.0.2)

2 Classes

2.1 The Flux class

2.2 The Dflux class

2.3 The Size class

2.4 The Coordinate class

3 Methods

4 Future Features

4.1 Features in development

4.2 Features to be developed