

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