

mockgals

This manual is for `mockgals`, a program to make mock astronomical objects in a FITS image and add the appropriate noise.

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1 An introduction.

Making mock galaxies is very important in the process of understanding our data. `mockgals` was initially made with this exact intent. Certain astronomical targets, for example elliptical galaxies, are very sharp in their central regions, this makes a simple calculation of the profile in the center of each pixel unrealistic for such cases. The main advantage of `mockgals` is that it integrates the central parts of profiles until a given accuracy. It does this without any sorting or ordering and in a very fast manner.

A summary of the advantages of `mockgals` includes:

1. Integration of the center of the profile.
2. Very efficient in CPU usage, resulting in a very fast processing.
3. Written in the C programming language, which is easy to understand and modify or contribute to by any interested user.
4. [To be added] Can make profiles in any dimensions.

2 tmp

This is a temporary chapter.

3 Installation

`mockgals` relays on only 3 packages: GSL and FFTW.

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