Installation Instructions

NB. If you use the TEA-Phot code to produce results for a scientific publication, we ask that you please adhere to the citation requests of the developers that are on their main repository page (link below).

- These instructions should be identical for a Linux or Mac environment and Python 3.7 or a later version is recommended.
- TEA-Phot can be directly downloaded from <u>here</u> or the repository can quickly be cloned through the following command in the terminal:

```
git clone https://bitbucket.org/DominicBowman/tea-phot.git
```

- TEA-Phot requires only four additional Python modules. To install (if not already) run the following command in the terminal:

```
pip3 install numpy matplotlib sep astropy
```

"https://topswiki.saao.ac.zaHow-to"https://topswiki.saao.ac.za Instructions and Tips

NB. TEA-phot currently only supports SHOC data (incl. flats and bias files) in a cube format.

- To reduce and extract photometry from SHOC using TEA-phot, in the terminal navigate to the folder that contains the **TEA-Phot.py** file.
- To display basic usage and optional arguments run:

```
python3 TEA-Phot.py -h
```

- A typical example to reduce and extract photomery from SHOC data would be something like this:

```
python3 TEA-Phot.py SAAO SHOC name_of_data_cube.fits --image_dir /path/to/data_cube/ --flat name
```

- Wait for window to appear and select target and comparison star with mouse-clicks.
- Follow further prompts from the pipeline for inputs (aperture size etc.) in the terminal.

Note: TEA-phot will NOT do bias and flat field corrections if not BOTH flat AND bias cubes are supplied.