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AAS data editors: summary of  
our day(s) with your data & code



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Data/Software Keywords:	Data/software review
<p>This manuscript contained the following Data/Software keywords that may require review:</p> <p>github.com, sourceforge.net</p>	<p>1) We recommend that living code on github repositories (e.g. Be-synthesis-with-moog) place a "frozen" version on Zenodo (or other 3rd party repositories that issue DOIs) and then cite them in the article. A tutorial on how to do this is available here:</p> <p><a href="https://github.com/AASJournals/Tutorials/tree/master/Repositories">https://github.com/AASJournals/Tutorials/tree/master/Repositories</a></p> <p>[Edit]</p>

## at submission: a quick(ish) review of 60-90% of all manuscripts

- run scripts to identify linked code repositories;
- review links for remote, unarchived data/code sets;
- review tables and figures for size and to request data;
- submit data/code recommendations to scientific editor for review.



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Full range of possible parameterizations for the systematics that we investigated are detailed in Section~\ref{sec\_parameterization}. We used the `\textsc{batman}` package to model the transit \citep{2015PASP..127.1161K} using a linear limb-darkening prescription.

374-

375: We used the Python MCMC package `\textsc{emcee}` to fit the parameters describing the transit and the systematics simultaneously \citep{2013PASP..125..306F}. We fitted each observation separately. We used the routines of \cite{2010PASP..122..935E} to convert the calendar dates in the headers of each frame of each observation to BJD $_{\mathrm{TDB}}$ .

376-

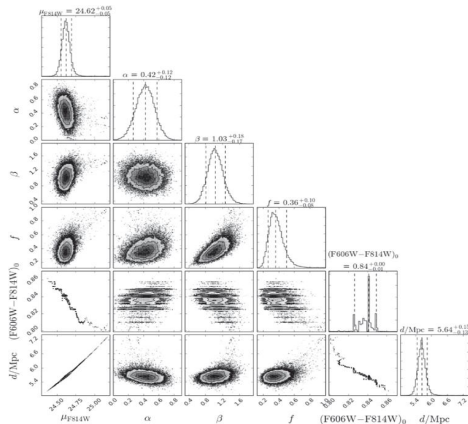
377: Figure~\ref{whitelight\_connected} shows the white lightcurves for each observation after removing

## at post-acceptance: deeper dives

- 15-20% of accepted manuscripts enter post-acceptance data review;
  - tables are standardized; interactive materials edited;
- run scripts to pick out code mentions, checking for references;
- request authors acquire DOIs for codes or find preferred citations;
  - wrap up editorial work with notes for IOP Production.



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*Software:* Astropy (Astropy Collaboration et al. 2013; Price-Whelan et al. 2018), CIAO (Fruscione et al. 2006), Matplotlib (Hunter 2007), PySpecKit (Ginsburg & Mirocha 2011), NumPy (van der Walt et al. 2011)

\software{} LaTeX example stolen from @astrogrant yesterday

## we have other ways of making you cite

- context free citation; recognizing the “fingerprints” of code
- domain expertise is key -- can I recognize a code’s role?
- could a referee do a better job of evaluating missing codes?



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## retrospective or: things that stump me

- articles that have no/zero/nada code mentions;
- anecdotal but legitimate conversations about code authorship;
- author education: *repeating the same thing over and over again*
- author education: *reusing the submission system to educate authors*
  - one more time: *author education...read the docs!*