

#####

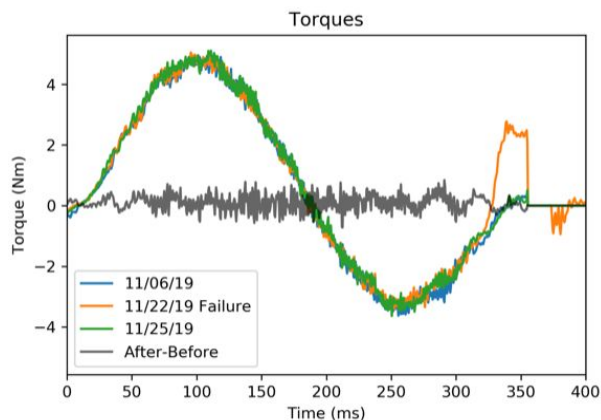
Newsletter #107, November 28th 2019

#####

If the newsletter does not look good in your email, check the pdf [here!](#)

News from the front: engineering reports (Richard Dekany, Reed Riddle, Roger Smith)

“Without prior warning, the shutter failed to execute its “homing sequence” on Thursday evening. At the closed position the blades were out of parallel by an amount that could be explained by skipping a belt tooth, though there is also some evidence that some sort of debris may have been caught in the drive train then fell out when the belts were being adjusted. Two nights of data were lost. A concerted effort through Saturday by summit and campus engineers prevented the weekend from being lost too. After correcting the misalignment, an oscillatory motion occurred at the open position, but was traced back to the need to recalibrate belt tension. The shutter has been functioning normally for two nights, so far. Follow-up investigations are planned, since the source of the original problem remains unclear. The orange curve (see plot below) illustrates the case after blade re-alignment but before belt tension was restored, so the blade was contacting the rubber end stop at the open position. With belt tension recalibrated, torque curves before and after the event are the same within the noise.”



News from working groups

Galactic and M31 Science: “We are continuing to observe the Galactic Plane, although seeing and weather have deteriorated. Despite this, there are some nights which are still good (seeing not too bad), so we are still progressing towards getting 400 epochs on the Galactic Plane fields with LAMOST coverage.”

AGNs and TDEs: “Motivated by the wise words of our PI, we are working hard to finish the population papers on TDEs and recoiling black holes. Meanwhile the transient ZTF19abvgxrq (aka Stannis) has surprised us with a steady decline. Is this a nuclear SLSN or an AGN flare (or both)?”

Cosmology with SNe Ia: “(1) The ZTF Uniform Depth Survey has started testing the reference building with an observing block of 30 minutes last week. (2) In relation to that, the ZUDS image stacking pipeline has been used to build references from existing science frames. (3) We were successful in getting Gemini NIRI follow up (8 hours) for high-resolution photometry of a lensed SN Ia from ZTF/ZUDS”.

Physics of supernovae and relativistic explosions: “Rachel gave a progress report on infant supernovae, including statistics on how common flash features are (>60% of Type II SNe during the first two days based on the 2018 sample). We also discussed the follow-up of ZTF19acryurj, the latest Type II with strong flash features.”

The papers corner:

Please keep us updated about your submitted/published papers, they will be advertised here.

Please send Joy Painter, the Astronomy Librarian at Caltech, links to papers as soon as they are published. They will be kept track of [here](#).

Reminders:

- PublicAlerts: There is a [link](#) to the alerts archive on the [website](#)!
- Please help us keeping track of all the available softwares! A preliminary list is available on the [twiki](#). Let us know if you are building a software which you think could benefit (or be relevant to) a large portion of the collaboration.
- **ZTF general slack channel:** Please join through this [link](#)!
- If you want to get access to the **ZTF data** via the IRSA interface, please request data access to the communication coordinators: ztf.communication.coordinators@gmail.com
- **Archive GUI** now ready! The interactive image search, filtering and visualization tool is now ready ().
- The **ZTF Twitter account** is now active! <https://twitter.com/ztfsurvey> Re-tweet @ztfsurvey!
- To use the **url shortener**(e.g. during telecons, talks, in emails), navigate to <http://zwicky.tf/shorten> (username: ztf password:16chips) and type in the URL you want shortened.
- The **Wiki page** is active! Check it out at <http://zwicky.tf/wiki>. To request access, please email us at ZTF.communication.coordinators@gmail.com

“The more you practice the art of thankfulness, the more you have to be thankful for” Norman

Vincent Peale

Happy Thanksgiving!

Igor and Maayane