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Newsletter #103, October 25th 2019

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

News from IPAC: Updated about the I band data and archive down time:

- (1) “i-band de-fringing was deployed to operations on October 4 (thank you to Michael Medford & Peter Nugent for their efforts).
- (2) implemented an algorithm to mask “charge-spillage” ghost artifacts (thank you to Andrew Drake, Steve Kaye, and Roger). These artifacts are band agnostic and only appear in data acquired prior to the recent update of the camera waveforms (\leq 2019-10-22).
- (3) we have commenced reprocessing of all the i-band science image data going back to 2018-02-24. Archived data is gradually being replaced. Following this, we will regenerate i-band reference images (pending approval by the board and project), then regenerate subtraction images.”

The ZTF archive at IRSA will be undergoing maintenance next **Tuesday October 29, 8AM - 12PM PDT. Products will not be accessible.**

News from machine learning (Ashish Mahabal)

We have been working on a variability catalog for ZTF, compiling ZTF light curves for different types of variability. We are putting together prototypes as well as samples from ten chosen fields. Know-how on different favorite variables is welcome.

We are also running a Zooniverse campaign looking for fainter orphan objects and fainter supernovae. If you can engage some of the volunteers, it will help. The project will be formally announced next week.

If you have an interesting machine learning idea and would like help in implementing/executing it, do get in touch. Also keep us posted on any new ZTF machine learning project you may have embarked on.

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For the next five weeks the weekly ML meetings will be on Fridays at 10 AM PT.

News from working groups

AGNs and TDEs: “TDE Jaime is dramatically brightening in the soft X-rays now 200 days after peak!

“Nearest” TDE Melisandre has reached her peak and is developing strong, broad spectral features! VLA observations were triggered for VHE neutrino coincident TDE Bran! Mysterious flaring NLSy1 Stannis is

declining sharply from peak! Lots of exciting developments among our nuclear transients, plus several observing proposals submitted for follow up in 2020!”

The papers corner:

There have recently been several ZTF papers submissions which have not been advertised here. **Please don't forget to notify us when you submit your paper!**

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

“Every day is Halloween, isn't it? For some of us.” Tim Burton

Have a great and productive week!

Thomas and Maayane