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Newsletter #38, July 13th 2018

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Light curves from combining alerts

Frank cautions that ZTF processing is quadrant-based and all quadrants are treated independently. Each quadrant therefore has its own reference image created from different input epochs. If one of the references is more/less contaminated than the other then an offset will show up in the light curve.

Reminder: In preparation of the collaboration meeting, send us the questions you would like to discuss:

To help the organisers manage the discussion on the most important topics, please let us know if you have the answer to/have been investigating already one of the above questions, and if there are other important subjects you find particularly important to discuss:

1. What is the RB distribution of transients saved by scanners. Where can we put the Cut?
2. How good is the Photometry? Comparisons to other pipelines or other surveys, for different magnitudes slots.
3. How complete are we? Do we find all/some/most of the SNe reported in ATELS?

News from working groups

SNe and relativistic explosions: “Some members of the Supernova and Relativistic Explosions working group are spending this week at the Lorentz Center in the Netherlands at a workshop exploring new types of transients in the light of current and upcoming surveys, and we are happy to report there is a lot of community interest in ZTF, from both supernova and nuclear transient perspectives. Otherwise, we keep searching for infant supernovae, and had one trigger and same-night spectrum of ZTF18abfzgp1.”

Solar system “We had a lucky weekend and found 4 new NEOs in 3 nights! The high declination survey is quite well suited for asteroid detection.”

Reminder: Low Galactic latitude Zooniverse campaign is on (HELP needed):

Richard Walters has set up a low Galactic latitude campaign so that the training sample there can be improved, Please classify!:

<https://zooniverse.org/projects/rswcit/ztf-rb-project/>

This is still an internal (to ZTF) campaign. We have not had time to change the tutorial, so ignore the extragalactic examples there.

Constraints used (in addition to Frank’s stringent MSIP cuts) are:

$|b| < 10$, Mix of RB scores:

~500 with $RB < 0.2$ (should be really bogus)

~500 with $RB > 0.8$ (should be really real)

~3000 with RB between 0.3 and 0.65) (this is where we need more discrimination)

Reminders:

- Public Alerts: 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

"We are well aware of the task ahead of us in what will be a very difficult match but which we all dream of playing." (Z. Zidane)

Have a great and productive week!
Thomas and Maayane