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Newsletter #27, April 27th 2018  
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**Last news from the front (Engineering and Data Quality status):**

Observing will occur at least until Monday in single filter mode due to a failure of the filter exchanger

**News from the GROWTH Marshal: A job opportunity with GROWTH - spread the word**

We have advertised a 1-year position for an astronomical software developer to help maintain and improve the GROWTH marshal. The position is most suited for a post-bac with strong software background. Further details and the link to apply are posted at

<https://chm.tbe.taleo.net/chm03/ats/careers/v2/viewRequisition?org=CALTECH&cws=37&rid=3648>

Please forward this opportunity to students and friends at your institutions who may be interested.

The job opportunity was announced on the GROWTH social media as well so please, share the posts

Facebook: <https://www.facebook.com/growth.pire/posts/1728380020562362>

Twitter: <https://twitter.com/GrowthPire/status/989566633927589888>

**Reminder: list of softwares:**

Following several requests at the collaboration meeting, we started listing the various general purpose softwares that people are building, to avoid spending twice (or three times, or more) the effort.

A preliminary list is available on the [twiki](#), based on what people have sent us so far.

Please help us in this task and 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 next collaboration meeting:**

Registration for the August team meeting in Stockholm is now open! The organisers would like to make a preliminary head count to sort out some of the organisational issues. If you are >90% sure that you are coming, please sign up now if you have not done so already at:

<http://agenda.albanova.se/conferenceDisplay.py?confId=6506>

**News from working groups**

**Machine learning:** "We continue the Zooniverse campaigns, with CCD 3 this week. These compliment the classifications on the Marshal. Please spend a few minutes each week to help get the RB classifier better. A new model will likely be in by next week."

**SNe and relativistic explosions:** "The Supernova and Relativistic Explosions group finally got the green light to send out our ATel this week - check out <http://www.astronomerstelegam.org/?read=11567>, or try searching for ZTF transients on the TNS! Otherwise we are working on transient filters but struggling with finding effective ways of testing/debugging the way things are currently implemented on the marshal -- if any other groups have found solutions to get around this, please be in touch. We also set up a Slack channel for our working group; instructions for how to join can be found on our twiki page."

**AGN & TDEs:** “The ZTFbh SWG is continuing our daily scanning on the GROWTH Marshal. We are saving some nuclear transients that end up being bogus, but hopefully can be filtered out in the future using non-detections on the same night, or non-detections in between detections. We are also working on characterizing the nuclear transient astrometry to finalize our spatial “nuclear” cut. We are going to be feeding back all of our bogus and reals to the ML group. Right now the RB scores are pretty low (~0.2) for a lot of our real nuclear transients. We are still on the hunt for our second TDE...to be named "Jon Snow"! Our first TDE, "Ned Stark", is continuing its decline from peak, and showing extremely interesting spectroscopic properties. A bunch of us are going to the ZTF Sweden meeting, and we are very much looking forward to it.”

**EM/GW and Neutrino counterparts:** “The start of LIGO/Virgo O3 was officially postponed to early 2019. The Growth MoU was officially approved by the ZTF board. A neutrino trigger arrived on April 23, but was identified as background and retracted.”

**Stellar:** “Two more NEA discoveries: 2018 HL1, 2018 HX1, both Apollo type. SWG members are working on several ZTF papers: science objective, early science, and machine learning.”

**Galactic and M31:** “We have started to look at Gaia DR2 which shows many interesting things.”

### **Reminders:**

- **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](mailto:ztf.communication.coordinators@gmail.com)
- Archive GUI** now ready! The interactive image search, filtering and visualization tool is now ready (see previous newsletters).
- 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](mailto:ZTF.communication.coordinators@gmail.com)

*“Confidence level: selfie with no filter ” (Anonymous)*

Have a great and productive week!  
Thomas and Maayane