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Newsletter #127, May 13th 2020

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

**News from the GROWTH marshal (Ashot Bagdasaryan):**

An issue with ZUDS photometry caused the corresponding source photometry pages to crash. The photometry has been re-uploaded to fix the issue, but manually uploaded photometry points have been removed as a result. As such, users are required to specify a flux zeropoint if manually uploading photometry to ZUDS sources.

**Zooniverse supernova host check request (Maayane Soumagnac and Peter Nugent):**

We are currently working on having ~11 000 SNe from ZTF, PTF/iPTF and SDSS-II observed by DESI, starting during the upcoming DESI Science Validation phase, and we need your help! Please join the Zooniverse platform to help us complete a quick eye-check in order to (1) assess whether the SNe hosts we pre-identified in an automated way are indeed the correct ones, (2) help us tag tractor's failures. This eye-check will also help us prepare the ground for training a host-identification machine learning tool for LSST.

The steps are very simple:

1. Register on the [zooniverse platform](#) if you don't have a username yet
2. Fill in your username in [this form](#)
3. We will then send you the link so you can start eye-check hosts!

**News from working groups**

**Galactic and M31 Science:** "We have started the Galactic Plane I-band observations since last week. I-band reference images are available for most fields, and we are looking at the alert stream and PSF photometry. Some minor tweaks in scheduling of the survey are needed to ensure we get enough epoch on the low-dec fields which contain the most stars."

**AGNs and TDEs:** "Our latest TDE candidate ZTF20aansze could be at very high redshift or in a very low-mass host galaxy. Both would be very interesting hence a spectroscopic redshift will be very important. Currently at  $m = 19.8$ , it's not out of reach yet; let us know if you can help."

**Cosmology with SNe Ia:** "The Cosmology group has been working on reprocessing the year 1 lightcurves with the ZUDS pipeline on NERSC. Romain Graziani has been working on a PSF model."

**Physics of supernovae and relativistic explosions:** “Last week, Christoffer Fremling and Dan Perley gave an update on the Bright Transient Survey. The two also presented a tool that allows us to mine this rich data-set more efficiently. They also proposed that a similar tool with fewer features could be made available to the general SN community, to get more people involved in ZTF.”

### **The papers corner:**

- From the Solar System group a paper by **Bryce Bolin et al.** on a multiwavelength study of interstellar object 2I/Borisov has just been accepted: [“Characterization of the Nucleus, Morphology and Activity of Interstellar Comet 2I/Borisov by Optical and Near-Infrared GROWTH, Apache Point, IRTF, ZTF and Keck Observations”](#)
- **Mickael Rigault’s** *ztfquery* is now citable, see: [“ztfquery, a python tool to access ZTF data”](#). Want to use ztfquery? The GitHub repository can be found [here](#).
- The paper by **Robert Stein et al.** [“A high-energy neutrino coincident with a tidal disruption event”](#) passed the editors’ wall and it is currently under review for publication in *Nature*. The preprint was recently posted on ArXiv.
- The paper by **Igor Andreoni et al.** [“Zwicky Transient Facility constraints on the optical emission from the nearby repeating FRB 180916.J0158+65”](#) became available on ArXiv today and it was submitted to ApJL.

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 keep 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](mailto: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](mailto:ZTF.communication coordinators@gmail.com)

*"The universe is a big place, perhaps the biggest."*

Kurt Vonnegut

Have a great and productive week!

Igor and Erik