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Newsletter #157 February 24th 2021

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News from working groups

Galactic and M31 Science:

“Two papers have just been accepted for publication. The first one is on Ho Puppis; a new 'IW And' type star. The second is the first paper on the ZTF variable star classification work, and can be [found](#) on ArXiv today. A paper on RRlyrae in clusters has been sent to the publication board.

We are working with the Fritz team to get variable specific features implemented into Fritz. We are using DR4 to mine ZTF, and keep finding more unusual binaries and rapidly rotating white dwarfs.”

Solar System:

“We would like to congratulate Kritti Sharma, Kunal Deshmukh and Harsh Kumar working under Prof. Varun Bhalerao for their work in helping ZTF with NEO discovery and follow-up. Recently, they were given a special mention and a silver medal at the 39th meeting of the Astronomical Society of India (ASI) for their work in NEO discovery and follow-up with ZTF and the GROWTH India Telescope including the discovery of 2020 QG, one of the closest asteroids to pass by the Earth. The ASI announcement can be found [here](#).”

Cosmology with SNe Ia:

“Two Ia paper drafts are now in circulation: "Constraining Type Ia supernova explosions and early flux excesses with the Zwicky Transient Factory" by Maxime, where we welcome feedback before March 5, and "Two c's in a pod: Cosmology independent measurement of the Type Ia supernova colour - luminosity relation with a sibling pair" by Rahul, with feedback welcome before Feb 26.

We are also under discussion with the Chicago group for a joint HST proposal for a pure-ZTF-data-H0 measurement.”

Multimessenger:

“On Monday we published our paper “[A tidal disruption event coincident with a high-energy neutrino](#)” in Nature Astronomy. The work details the result of our ZTF neutrino follow-up program, which led to the identification of tidal disruption event AT2019dsg as the second probable high-energy neutrino source.”

Physics of supernovae and relativistic explosions:

“Follow-up of the Type Icn SN ZTF21aakilyd continues: HST spectra reveal numerous P-cygni features in the UV and ground-based spectra show that some of the features are disappearing quickly. Rachel presented data collected as part of her ePESSTO+ program. Detailed spectral sequences will allow her to characterize how the flash-ionization features of young SNe evolve with time.”

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
- 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

“If you torture the data long enough, it will confess.”

- Ronald Coase

Have a good and productive week!

Erik and Igor