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Newsletter #156 February 17th 2021

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News from working groups

Solar System:

"We have found 5 new NEOs in the last week with ZSTREAKS: 2021 [CZ3](#) = ZTF0KSP (Feb. 9.97 UT), 2021 [CS3](#) = ZTF0KND (Feb. 9.83 UT), 2021 [CV4](#) = ZTF0KSJ (Feb. 10.59 UT), 2021 [CY4](#) = ZTF0KSD (Feb. 10.87 UT), 2021 [CU5](#) = ZTF0KXA (Feb. 12.13 UT)."

Cosmology with SNe Ia:

"Last week, saw the first regular rotation of the SNe Ia phone-con: Rahul updated us on efforts to measure the dust laws of SNe Ia from a unique set of sources: [ZTF19aambfxc](#): two SNe exploding on the same pixel (sound familiar ZTF20acwobku'ers?) and Mat showed us some cool plots on the relationship between SNe Ia and their host galaxies from the Y1 sample. Up next: a discussion of the beautiful lax ([ZTF20acdjqeq](#)) and potential HST proposals. Come join in the fun!

With an increased focus on the physics of SNe Ia, the WG is keen to hear about ongoing science projects on all things weird, wonderful and mundane in the world of SNe Ia: do say hi on slack or come join a phone con if you've got anything you'd like to share!"

Multimessenger:

"Last Friday, we got the first high-energy neutrino of the year (IceCube-210210A). We performed ZTF follow-up and published two candidate counterparts via GCN, [ZTF21aajxjry](#) and [ZTF21aajxjrv](#). The latter was also detected by DECam; serendipitous monitoring is ongoing."

Physics of supernovae and relativistic explosions:

"We discovered several intriguing SNe this week: [ZTF21aakilyd](#) shows prominent narrow Carbon P-cygni features, indicating that the SN ejecta interacts with a carbon-rich circumstellar medium. This would make it the second known "Type Icn SN" after [SN2019hgp](#). HST observations are triggered and regular spectroscopic monitoring is ongoing.

Additionally, [ZTF20acwobku](#) first seemed to be an ordinary Type II SN with flash-ionization features. However, after 50 days a second SN-like transient emerged in the exact same spot, but this time with the spectrum of a Type Ib. Join the slack channel for this object in ZTF Transient to discuss the possible nature of the event."

The papers corner:

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
- 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

“To acquire knowledge, one must study; but to acquire wisdom, one must observe.”

- Marilyn vos Savant

Have a good and productive week!

Erik and Igor