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Newsletter #121, April 1st 2020

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Impact COVID-19 on telescope availability:

As you are all aware, telescope access is very limited at the moment. Among a long list of telescopes, P200, Keck are not obtaining data until further notice. In better news, after a spell of bad weather P48 and P60 are back on sky and producing alerts/spectra! There has been a community effort to track the status of all observatories, which can be found on <http://treasuremap.space/status>.

The Spring 2020 ZTF partnership meeting (Jakob Nordin):

Thanks for all contributions to the partnership meeting! Despite the unusual circumstances at least we (the organizers) were impressed both by the science presented and the amount of discussion. The slides will continue to be available on the [Twiki](#), but we also have recordings of most sessions. Contact us if you want access to these.

News from working groups

Cosmology with SNe Ia: “Ariel is writing a paper on ZTF19aambfxc. It is an interesting object since there are two SNe (one Ia and one likely Ia though no spectra) with $< 1''$ separation in the same host galaxy around 200 days apart. Since they have the same distance, it’s a novel probe of the reddening law. Additionally we’re working on the baseline corrections for forced photometry of the Year 1 cosmology sample.”

Physics of supernovae and relativistic explosions: “Lin gave an update on the ZTF SLSN sample in our last telecon before the Team Meeting. Since the launch of ZTF, the SLSN team has detected 125 SLSNe, doubling the number of SLSN known before the start of ZTF(!). This sample includes 71 H-poor SLSNe, 53 H-rich SLSNe and a growing number of inbetweeners. Her team uses this large and well-defined sample to tackle several outstanding questions in the field of SLSNe, e.g., ensemble properties of SLSN light curves, luminosity functions as well as rate functions.”

Multi-messenger: “Due to the current circumstances, the LIGO/Virgo gravitational wave detectors have also been turned off. The current observing run O3 was scheduled to run until the end of April, but has

now been cut a month short. It is unclear at this time whether they are turned off until O4 (starting late 2021 at the earliest), or if they will come back online later this year. We are now turning our attention to the follow-up of short GRBs, as observed for kilonova AT 2017gfo (GW170817).”

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
- **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://zwickytf.org/shorten> (username: ztf password: 16chips) and type in the URL you want shortened.
- The **Wiki page** is active! Check it out at <http://zwickytf.org/wiki>. To request access, please email us at ZTF.communication.coordinators@gmail.com

“April 1. This is the day upon which we are reminded of what we are on the other three hundred and sixty-four.”

Mark Twain

Have a great and productive week, and stay healthy!
Igor and Erik