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Newsletter #160 March 17th 2021

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News from working groups

Cosmology with SNe Ia:

“Last week the SNIa group started a discussion of proposal plans in light of the upcoming ESO and Gemini deadlines. Overall, we settled on submitting a variety of proposals from using MUSE and HAWK-I for lensed events to X-SHOOTER (in combination with the wider transient group) for very young discoveries, and maybe even MUSE to characterise SNeIa in the local Universe. Discussions are firmly ongoing, and we’d love to collaborate, so do say hi if you have an idea, or space for an addition to your science case: Ia’s are interesting and everywhere!

Phone-con wise, we heard from Philippe R on his ongoing efforts to measure the thickness of the ZTF CCD and Luke H on a new project to model the early spectra of SNeIa’s. Come along this week for a discussion of what, why and how for photometric typing and ongoing efforts to automate spectral classifications!”

Machine Learning:

“Now that the SCOPE paper is published ([van Roestel et al. SCOPE-I](#) behind the [Coughlin et al. SCOPE-II](#) published earlier) we are looking at standardizing and streamlining classifications for multiple classes and follow-up data releases. For this a continuous integration system is being set up (Dima) and a field guide template is almost ready. Currently it has RR Lyrae (Jan) and will soon be opened up for other classes.

A second machine with 64 TB has been ordered that should ease the pressure on the current infrastructure with Fritz and the mounting number of alerts, and provide timely access to future data releases that are to come at a higher frequency.

Tails, for comet finding, was implemented some time back. The related paper ([Duev et al.](#)) has also been published.”

Physics of supernovae and relativistic explosions:

“Christoffer, Yashvi and Kaustav have identified several apparent Type IIb SNe that only show an early shock-cooling peak and no second peak powered by nickel. The light curves of these low-luminosity transients look very similar to kilonovae, so you need a spectrum to tell them apart.“

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

“The process of scientific discovery is, in effect, a continual flight from wonder.”

- Albert Einstein

Have a good and productive week!

Erik and Igor