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Newsletter #158 March 3rd 2021

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News from Fritz (Ari Crellin-Quick)

These past weeks, the Fritz team has implemented many new features & performance improvements, including the addition of a periodogram analysis page, greatly improved scanning page (and site-wide) performance, and many bug fixes and miscellaneous enhancements.

News from working groups

Solar System:

“Our group has recently had accepted a paper in AJ, led by Dima Duev: [Tails: Chasing Comets with the Zwicky Transient Facility and Deep Learning](#). We have also submitted a paper which is now under review in ApJL, lead by Josiah Purdum under the advising of Zhong-Yi Lin and Bryce Bolin: [Time-series and Phasecurve Photometry of Episodically-Active Asteroid \(6478\) Gault in a Quiescent State Using APO, GROWTH, P200 and ZTF](#).”

Cosmology with SNe Ia:

“Last week saw the discovery of SN2021dov ([ZTF21aamokak](#)): a nearby (<60Mpc) SNIa, caught early, with evidence of early carbon. Follow-up observations are encouraged! Feel free to have a peruse of the light-curve and spectral series being compiled on Fritz! Beyond that, it’s proposal season! A HST proposal to obtain TRGB distances of the hosts of nearby ZTF SNe Ia is in the works, with plenty more to follow as we ramp up to the ESO deadline at the end of the month! Come say hi, or drop us an email if you’d like to collaborate on proposals!

Finally, the phone-con. In our last instalment we heard from Maxime Deckers on the possibility of early flux excesses in Super Chandra Ia’s and Ana Sagués-Carracedo on how to optimise the selection of strongly lensed SNe: we want to find them! Up next is Jeremy Lezmy on how to maximise the spectral information from SEDm: useful to everyone! Come join us on Wednesday @ 3pm Europe, 6am California!”

Physics of supernovae and relativistic explosions:

“Avishay is finalizing his paper about the first Type Icn, [SN2019hgp](#). He shows that the progenitor is most likely a compact Carbon Wolf-Rayet star. Correspondingly, the explosions of Nitrogen-rich Wolf-Rayet

stars could result in Type Ibn SNe. Kaew Tinyanont from Santa Cruz will lead a paper about the [SLSN 2020wnt](#): The spectrum looks like a Type Ic SN, but it is more than three magnitudes brighter.”

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

“I have had my results for a long time: but I do not yet know how I am to arrive at them.”

- Carl Friedrich Gauss

Have a good and productive week!

Erik and Igor