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Newsletter #163 April 8th 2021

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News from working groups

Cosmology with SNe Ia:

“Samples, samples and more samples. Last week saw the SNe Ia group push on with a roadmap on how best to measure the cosmological parameters from ZTF: pulling various facets of the group together to measure properties such as fsigma8. To highlight how things are coming together, Mickael walked us through a tutorial of ztfquery.fritz: an absolute must for anyone who’s working on either a single object or a large statistical sample. This python interface will basically give you anything you might need, so check it out of GitHub, wander through a tutorial or two and ask him a question or three :). The big remaining piece of the puzzle for the SNIa WG is calibration: it’s clear that progress is being made, but timescales and milestones still need to be defined: check in next week for more of that!

On the other side of a coin, to appeal to the astrophysicists amongst us: this week, the Ia group are the proud discoverers of a SN with a bump ;). ZTF21aapexph is an exciting addition to a rare class: a routine SN Ia exhibiting an early time UV excess. Strongly hinting at what might actually be progenitor of everyone’s favourite explosion, look this one up and expect to hear plenty more.

After a week off for Easter and HST proposals, we’re back next Wednesday (14th) for a discussion of how best to measure fsigma8 from our Marseille colleagues. Do come listen in :).”

Physics of supernovae and relativistic explosions:

“Jesper is working on two different papers: In the first one he will characterize the well-observed Type II SN2020jfo that exploded in M61, making it one of the closest SN we have discovered. He'll compare it to two other Type II SNe that display signs of interaction: SN2020amv shows flash-spectroscopy features in the first days after the explosion, while SN2020jfv rebrightens after ~150 days due to late-time interaction.“

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 communication coordinator Ivona Kostadinova: ivonata@astro.caltech.edu
- 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 Ivona Kostadinova at ivonata@astro.caltech.edu

"All models are wrong, but some are useful"

- George E. P. Box

Have a good and productive week!

Erik and Igor