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Newsletter #144 October 28th 2020

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### **News from working groups**

**Galactic and M31 Science:** “Using machine learning classifications, we are exploring the high amplitude variables; specifically high amplitude variables that do not belong to common classes. This resulted in a diverse and very interesting sample, which we have started to study further. Kevin’s paper on a new 8 minute binary has been submitted, and the paper describing the entire sample of short period dWDs has been accepted. Other papers (AMCVn, fast rotators) are getting close to completion.”

**Solar System:** “Our group has two presentations occurring this week at the AAS/Division for Planetary Sciences Meeting. By Kelly et al., "*On Water Ice in Cometary Outbursts*", a summary of an outburst of comet 243P/NEAT, which lacked spectral evidence for water ice 4 days after the event, and a discussion of water ice observed in other cometary outbursts. By Bolin et al., "*The Discovery and Characterization of the First Inner-Venus Asteroid, 2020 AV2*", a report on the discovery of the first known asteroid contained entirely within the orbital of Venus, 2020 AV2, with an aphelion of 0.65 au. 2020 AV2 is likely ~1.5 km in size, and a chaotic orbit. Our estimation of our survey completeness indicates that objects like 2020 AV2 may be more plentiful than predicted by contemporary asteroid models.”

**Multimessenger:** “Last Wednesday we got a high-energy neutrino (IceCube-201021A), which we followed up with ZTF. We found one interesting candidate (ZTF20acmxnpa/AT2020ybb) that could be a Supernova II<sub>n</sub> post peak – which would be compatible with neutrino production. We observed this transient with GTC on the weekend, but data reduction is still ongoing.”

### **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](mailto: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://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](mailto:ZTF.communication.coordinators@gmail.com)

*“Those who never retract their opinions love themselves more than they love the truth.”*

*- Joseph Joubert*

Have a good and productive week!

Erik and Igor