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Newsletter #99, September 26th 2019

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### **News from working groups**

**AGNs and TDEs:** “The ZTFbh SWG is actively pursuing our three most recent TDEs: Robb (ZTF19abidbya), Margaery (ZTF19abhjcc) and Bronn (ZTF19abhejal). We also have an exciting new, bright, blue nuclear transient, Stannis (ZTF19abvgxrq), that exhibits a blue continuum, and narrow lines, including [OIII] and He II. We are following up all of these sources with Swift, and hope to get more epochs of spectra with our DCT run tonight.”

**Galactic Science:** “Micheal Coughlin reports that earlier this week, KPED (Kitt Peak Electron Multiplying CCD demonstrator) ran completely robotically, with a fully functioning queue system that seemed to do sensible things. We will continue to test the system, and upgrade the telescope with a GPS to enable accurate timing measurements.”

**Solar System:** “ZTF serendipitously imaged C/2019 Q4, a historical event of its own kind, on 2019-09-11 and 2019-09-21 where its cometary appearance is apparent in g and r band images (see images below). After the discovery of 1I/Oumuamua, C/2019 Q4, discovered by Gennadiy Borisov, an amateur astronomer from Crimea, on August 30, 2019, is the second interstellar object to be discovered and the first to have a cometary designation. Unlike 1I, C/2019 Q4 is wrapped in a confounding layer of dust that makes it difficult to determine its physical properties, but demonstrates the potential for determine its volatile contents, a clue into the content of exo-cometary bodies. Normally, the opportunity to study the cometary content of extrasolar systems never comes this close limited to study of icy debris disk or in the polluted atmospheres of some white dwarves. Fortunately, nascent planetary systems eject lots of material in their early histories which provides us the opportunity to study a piece of them up close when one of them wanders through our system.”

**SNe and relativistic explosion:** “Several team members attended the ESO conference “The extragalactic explosive Universe: the new era of transient surveys and data-driven discovery” (<http://www.eso.org/sci/meetings/2019/EEU2019.html>), to discuss the latest results in transient science, and opportunities and challenges in the LSST era.”

### **The papers corner:**

A new class of extreme quasars was discovered by ZTF! [Frederick et al 2019](#) has now been accepted by ApJ.

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 soon as they are published. They will be kept track of [here](#).

**Please upload your talk from last ZTF meeting!**

If you presented at the team meeting two weeks ago but still have not uploaded your presentation to the [Wiki](#), **please do so as soon as you are able** - it helps people who were not able to attend see what was talked about and is also a useful reference point for the project when we have to write reports.

**Reminders:**

- PublicAlerts: There is a [link](#) to the alerts archive on the [website](#)!
- Please help us keeping 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)

*“By all these lovely tokens September days are here, With summer’s best of weather And autumn’s best of cheer.” – Helen Hunt Jackson*

Have a great and productive week!

Thomas and Maayane