

Unofficial Meeting Minutes 5/29/2020
Weird Version

- Club Announcements
 - Game Nights! Alternating with every meeting, every two weeks. Next Game Night Friday, June 5th at 4pm. Hosted on Discord. Minecraft, Jackbox, etc.
- What's Up Astro Club with Yancy
 - Venus is almost not up anymore :(
 - Mercury is still visible!
 - Quarter til Midnight, Saturn and Jupiter are visible near Sagittarius
 - Procyon A
 - § 1.5 Msun
 - § 2.0 Rsun
 - § 6.9 Lsun
 - § F5 IV-V, transitional spectral type, right at the very end of burning hydrogen, at the end of the main sequence, and will enter Red Giant phase
 - § 11.46 ly away, very close to us!
 - § Double star, companion white dwarf Procyon B
 - 0.6 Msun
 - 0.012 Rsun
 - 0.0005 Lsun
 - 40.8 yr orbit
 - ~15 AU from host star on average
 - $e = 0.4$
 - § Face West at 8:30pm in Canis Minor

- Astro Question of the Week with Don

- Solar System Explorer

- § If I'd dropped that sucker into a gargantuan sea it would've floated.

- Saturn

- § I was knocked unconscious and awoke to the sound of my ship being pummeled, as if a thousand kids were throwing snowballs. All I could remember was that I wasn't in the asteroid belt.

- Rings of Saturn, Comet tail

- § It was very cold, and the atmosphere blocked out all the stars, but I wasn't hovering over one of those gasbag Jovian planets.

- Titan

- Comet ATLAS

- § Kind of fizzled out, disintegrated

- § Comet's gas tail points away from the Sun, dust tail follows the orbit

- § Apparently has two nuclei now

- Impossible moon photos

- § Family Circus – fake, no full moon and sunset on the same side of the sky

- § Alessandra's picture – possible, fun framing the moon to be in a radio dish, but in reality a mosaic

- § Moon over Kitt Peak – taken in the morning as the moon sets in the West

- § Moon Analemma - Picture of the moon every lunar day composited together, analemma, throughout the month, due to the tilt of the Earth

- § Moon Eclipse – another composite, this time showing the shadow of the Earth

- How high is a meteor?

§ 60 to 90 kilometers typically

§ This specific meteor was at 121km

§ Fireball parallax allows you to triangulate the altitude

§ Why did it heat up so soon? Either its speed or the angle it came in at

- Don asks you to complete some surveys to help plan classes for next semester!

· Meet the Messiers with Sean – Messier #12

- NGC 6218
- 23 thousand ly from Earth
- Discovered by Messier in 1764
- Astronomers suspect that gravity has ripped many low mass stars from M12 as the cluster passed through denser regions of the Milky Way
- It must have lost up to 1 million stars this way.

· Astrophotography with Sai

- Star trails!
 - § Just need a stable surface and some time to take long exposures
 - § Set up camera for 30 second exposures and take 70-80 pictures and combine them in photoshop
- Ryan and the supernova
 - § Supernova went off in M61
 - § Supernova is in the outskirts of the galaxy
 - § Lots of galaxies in the image that were unexpected, pretty cool!
 - § Owl nebula and surfboard galaxy
- Constellations are easy to take pictures of, easier than star trails

· Kahoot time!

