

Meeting Minutes 11/6/2020

- General Club Announcements
 - ATOMM
 - Tutoring for physics, astronomy, and math by experienced graduate students (over Zoom!)
 - M (2-4 pm) Yujing Qin
 - T (noon - 2 pm) Ryan Keenan
 - W (1-2 pm) Ryan
 - Th (2-3 pm) Yujing
 - Game night tonight at 5pm! Join the discord!
- TIMESTEP
 - No meeting this upcoming week
 - Instead: Register for graduate application workshops
 - Email Vasileios Paschalidis to receive Zoom link
 - First workshop will begin November 11th
- What Up Astronomy Club with Yancy
 - Saturn and Jupiter close to Sagittarius
 - 30 min before sunrise, the moon will be a waning crescent, you'll be able to see Venus, Mercury and Spica all together this week!
 - The Aurora Borealis at Lapland, Finland
 - Can see the Big Dipper/Ursa Major and Arcturus
 - The angle between the horizon and the North Star is the same as your latitude
 - Constellations move left to right on the webcam
 - The Northern Cross is circumpolar here
- Astronomy Question of the Week with Don
 - Making a wave on Zoom
 - The HR diagram of people
 - The wavelength of the whirlpool galaxy
 - Lord Rosse's sketch
 - 72 inch telescope
 - Visible light
 - 400-700nm
 - Ultraviolet
 - Looking at massive stars
 - Infrared
 - Cool stars, heated gas
 - Visible
 - Normal stars
 - Hot stars
 - Radio
 - 21 cm line of neutral hydrogen
 - 10s to 100s of Kelvin
 - Sense of scale

- How long does it take for the Earth to move its own diameter in orbit around the Sun? 7.1 minutes
- How long does it take the solar system to move its own diameter in orbit around the center of the galaxy Sgr A*?
 - The Oort cloud could be considered the width of the solar system, gravitationally
 - 2,000 years
- How far does the Solar System 'fall' every second in orbit around the center of the Galaxy, Sgr A*?
 - Moves 48 AU/yr
 - 3mm per second, wow
- Astro News of the Week with Savannah
 - We found a Fast Radio Burst in the Milky Way
 - Traced it back to a Magnetar, a pulsar/neutron star with a crazy strong magnetic field
 - Repeating FRBs might be caused by a meteor crossing the beam of a magnetar
- Meet the Messiers with Sean
 - Messier #18
 - NGC 6613
 - 7.5 magnitude, need a telescope
 - 4200 light years away
 - Discovered by Charles Messier
 - Close to the Omega Nebula, which it may have formed with
 - Open cluster
- Game Night!