

Meeting Minutes 10/30/2020  
Spooky Ver.

- 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 next week at 5pm after the meeting
  - TIMESTEP
    - No meeting this upcoming week
    - Instead: Register for graduate application workshops
    - Email Vasileios Paschalidis (vpaschal@arizona.edu) to receive Zoom link
    - First workshop will begin November 11th
  - Physics Club!
    - Next Meeting: November 11th at 5 pm
    - They will be discussing upcoming officer elections (all positions are available...)
    - Talk to Grace if you have any questions!
  - Spooky Halloween Costume Contest!
    - Hey that's today!
    - Three Prize Categories:
      - Best overall costume
      - Best astronomy-related costume
      - Best Zoom background
    - Prizes (as promised):
      - Choose our next AstroKahoot topic
      - OR
      - You can present/discuss a topic of your choice for one minute at an upcoming meeting (within reason, make it club-friendly)
- What Up Astronomy Club with Yancy
  - Jupiter and Saturn in the early evening! Sagittarius is dipping down to the South/Southwest
  - The moon is real close to Mars!
  - Another great webcam!
    - In Finland! In the most Northern part of Finland!
    - Camera next to a lake
    - Vacation spot to see the Northern Lights in Spring and Summer :)
    - Live from Lapland, check it out on youtube
- Astronomy Question of the Week with Don
  - Video filters

- Is Gmail's color mixing accurate?
- Astronomy Camp shirt in the night
  - Black saguaro
  - Text very hard to read
- Why do these planets, moons and comets have different colors?
  - Real pictures vs false color
  - Some optical images
  - Rings of Saturn brighter in infrared than the planet
    - Taken in filter that focuses on Methane
    - Rocks and ice in rings reflect light
    - Gas of Saturn;s atmosphere absorbs the light
  - Venus picture in the ultraviolet
    - Unknown absorber at UV wavelengths
- Costume Voting!
- Astro News of the Week with Savannah
  - Hey, there's water on the Moon!
  - <https://www.washingtonpost.com/science/2020/10/26/water-on-the-moon/>
- Observatory by Storytime with Harrison
  - The Chandra X-Ray Telescope (CXO)
  - Launched 1999
    - 5 yr planned mission
    - > 21 yr use in practice and ongoing research
  - Specs:
    - $D = 1.2 \text{ m}$ ,  $A = 0.04 \text{ m}^2$
    - $f = 10 \text{ m}$
    - Wavelength = 0.12-12 nm (0.1-10 keV)
    - Resolution = 0.5"
  - Mission
    - High energy astrophys
    - Compact objects - black holes, neutron stars
    - Supernovae and their remnants
    - Gamma ray bursts
    - Dark matter interaction
    - Infalling material
- Spooky AstroKahoot
- Voting Results!
  - Best Overall Costume: Binh
  - Best Astronomy Related Costume: Don
  - Best Zoom Background: Yancy
- Astrophotography with Sai :)
  - Stick around afterwards to find out more :D