

Meeting Minutes 9/20/19

It's a truly historic day, the day of the Area 51 Raid

- **ATOMM (Astronomy Tutoring or Majors and Minors):** Need help with math, physics, or astronomy? Want a place to study with friends?

Stop by *EVERYDAY* b/w 2-4pm @ Parker Library, outside N305. Get to know people in your major and work together, while also having upperclassmen available to help!

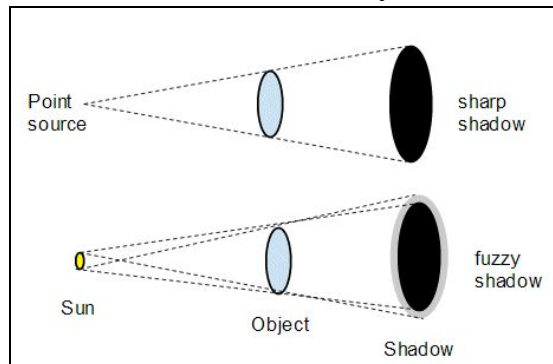
- **TIMESTEP:** TIMESTEP is a discussion group about topics of professional development for undergraduates in STEM fields at U. Arizona with a specific focus on supporting students who are under represented minorities (URMs). Next Meeting; What it's like to be a Graduate Student -> on October 9th in PAS 218. Hear from a panel of UA graduate students in physics and astronomy about the realities of graduate school and why they chose to pursue a PhD.

- **Astronomy Question of the Week:**

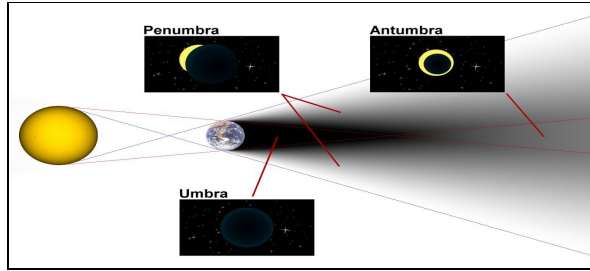
- Would shadows look different on Mars vs. the Moon?



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- Yes! They are sharper on Mars because the Sun acts like a point source since Mars is much farther from the Sun than the Moon
- Shadows seem more blurry with distance -> “penumbra”



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- Penumbra -> “fuzziness”



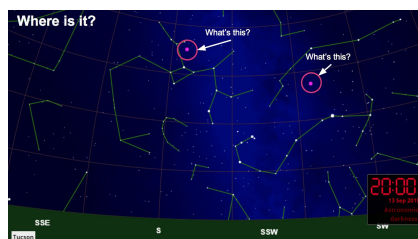
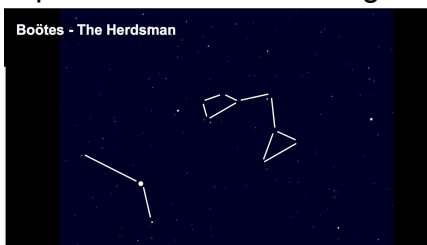
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- Shadows on Mars have no “penumbra”



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- Equinox shadows! The fall equinox occurs at 12:50am on September 23rd. Take photos down the wall a day before, the day of, and the day after the equinox and compare them!
- Remember that the equinox kind of “splits” night in day in half, where there’s 12 hours of light and 12 hours of dark.
- Check out this cool link about purple sunsets: <https://www.foxnews.com/science/russian-volcano-explosion-caused-purple-sunsets>

- **Astro News of the Week:** Presented by Madison Walder (whomst’d’ve is that?) (oh wait that’s me) (rip). Send your name to Mars on the 2020 rover! Also read about it’s mission while you’re at it! Here’s the link-> <https://mars.nasa.gov/participate/send-your-name/mars2020/>

- **Constellation Corner:** Presented by Sammie Mackie! This week is Boötes- The Herdsman! Check out the mythology behind it at <https://www.constellation-guide.com/constellation-list/bootes-constellation/>



- **Undergraduate Research Opportunity:** Lots Steward faculty are still looking for undergraduates to help in their research! Opportunities span many areas of astronomy, and it can count towards research credits
- **VLBA Dish Walk with Space Grant:** Astro club will be joining the UA Space Grant Interns on a tour/walk of the VLBA Dish on Kitt Peak. It will be tomorrow September 21st, We will meet in the south steward parking lot at 1:30pm, then we will head to the mountain at 1:45pm. International students make sure to bring passports or other identification. The dishwalk will be at 3. Make sure you remember: to wear closed toed shoes, sunglasses and sunscreen, and clothes you don't mind getting paint dust on (also make sure the clothes you wear are not bright because the bees WILL think you're a flower and they WILL come for you).
- **Club Picnic:** Will be on September 28th at Windy Point, on Mt. Lemmon. We'll have a picnic and then star gaze! Leave Steward Observatory south parking lot at 4:00 pm. Please bring food item to share (not messy/needs to be frozen), or \$5 food donation by next Friday. The sign up sheet is out!
- **235th Meeting of AAS:** It will be in Honolulu, Hawaii from January 4-8th. You will have to register by September 25th, and abstracts are due October 8th. We will be taking Seniors (Presenting and grad school info) and juniors that are presenting
- **Physics club:** Meets every other Wednesday at 5pm in PAS. Next meeting will be on October 2th.
- **If you didn't get your T-Shirt from last semester please do so by TODAY**
- **Astronomy Majors Lounge:** Now in the dome! In the room right by the stairs on the ground floor!
- **Astronomers:** If you have a snacc attacc, look no farther than Astronomers! The unofficial Astro Club snack store on 3rd floor outside Parker on the bookshelf. It's restocked every week, and open to everyone, including faculty. Honor system payment
- **Please pay your dues!** They are \$10 a semester. They help provide funds for trips, snacks, cool activities, shirts, etc. Also if you want to attend one of our internal events such as the club picnic and the dishwalk, you need to have paid

your dues!