

## Meeting Minutes 2/1/19

- **ATOMM:** In Parker Library (across from N305) from 2-4pm. It's a great resource to use for the beginning of the semester!
- **TIMESTEP:** Microaggressions and Bystander Training. This is on February 13th in N305 at 5pm. Learn about microaggressions and positive strategies for dealing with difficult situations in your classes and internships.

- **Don's Question of the Week:**

What's the orbital period of a geosynchronous satellite?

- A sidereal day: 23 hr 56 min 4 sec

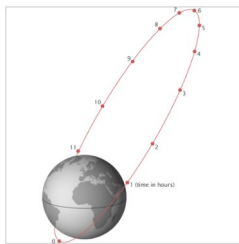
A geostationary satellite is a special case of a geosynchronous satellite

- They stay over the equator

Semi-synchronous Orbits complete their orbits in 11 hr 58 min

### Semi-synchronous Orbit

Molniya, GPS



Parhelic Arcs are a result of reflection (not refraction) of light off of hexagonal ice crystals in the atmosphere



The ISS is passing over Tucson soon! Check out heavens-above.com for other cool things

Date	Brightness (mag)	Start			Highest point			End			Pass type
		Time	Alt.	Az.	Time	Alt.	Az.	Time	Alt.	Az.	
08 Feb	-3.3	19:10:00	10°	NNW	19:13:07	40°	NE	19:13:46	35°	ENE	visible
09 Feb	-1.9	19:55:16	10°	WNW	19:58:07	27°	SW	19:58:17	27°	SW	visible
10 Feb	-3.4	19:03:32	10°	NW	19:06:48	62°	SW	19:10:03	10°	SE	visible
12 Feb	-0.9	18:57:48	10°	W	19:00:15	19°	SW	19:02:42	10°	S	visible

- **Astronomy News of the Week:** Presented by Michael Hardegree-Ullman! Here's the link -> <https://www.jpl.nasa.gov/news/news.php?feature=7327>
  - Cubesats named Wall-e and Eve went to Mars!
- Don't forget to sign up for Astro News of the week this semester!
- **Constellation of the Week:** Presented by Sammie Mackie! This week she presented Leo - The Lion. Check out the mythology behind it at [constellation-guide.com](http://constellation-guide.com)!



- **Active Galactic Videos:** They made a new video, NASA's OSIRIS-REx Lab: World's First Atomic Imaging Microscope <https://www.youtube.com/watch?v=BlhXSkajqf0>
- **Star Parties:** We have ones on: February 12th at Lineweaver Elementary from 5-7pm, March 1st at Rio Rico Elementary, March 12th at Sewell Elementary, and April 25th at Donaldson Elementary.
- Sign Up sheets will be sent out for each party with more details on time/activities.
- **Spring Trip!:** We'll be going to the Very Large Array in Socorro, New Mexico! The potential date is March 29th - 31st. You can go if you are a club member who has 1) paid your dues and 2) volunteered at a star party! The activities we

might do include a VLA tour, White Sands National Park, Magdalena Ridge Observatory, Star Party, and a Tour of the telescope museum.

- **Dancing Under the Stars:** Fun collab event with the Arizona Swing Cats! It will be on Saturday Feb. 16th from 6~8pm. There will be a basic swing dance lesson with star gazing! The first 45 minutes will be the lesson and the rest will be a dance social with an open floor!
- **Astronomers:** We protect, we attack, but most importantly, we snack. The Astro Club snack store is restocked every week. And it's open to everyone, including faculty. Honor system payment.
- **Astronomy Majors Lounge:** If you're an astronomy major, you can use this lounge for all your lounging and soup needs!
- **Pay your dues!** \$10 each semester, funds for trips, snacks, cool activities, shirts, etc. Due it.

