

Meeting Minutes 9/14/18

- **ATOMM:** Astronomy Tutoring of Majors and Minors. A tutoring service where upperclassmen/grad students provide help for you astronomy/physics/math classes! This takes place everyday in the Parker Library (across from N305) from 2-4pm. Be sure to come if you need help with these subjects, want to study with friends, or meet people in your major!
- **TIMESTEP:** The next meeting will be held on September 26th in Steward N305 at 5pm. The topic discussed will be learning about the oSTEM UA Chapter and resources at the LGBTQ+ center. There will be pizza!!
- **Don’s Question of the Week:**
 - A “Glitter Image” real or not?



- Image could be processed to brighten faint things, and make them the same level of brightness as the other objects. “The Glitter” effect occurs when small ripples of water reflect light in your direction, but generally it is aligned with the source. The image is believed to be different time exposure images stacked on top of each other. And the bright source of light (that isn’t the Milky Way) is Mars.
- True or False? #1 It’s much more difficult to reach the sun than it is to leave the solar system altogether. #2 Any available launch vehicle - even near-future the, the most powerful-won’t be able to shoot a spacecraft to get to the Sun. Both #1 and #2 are true (Rip Parker Solar Probe).
- Getting a spacecraft to 0.04 AU (the realm of Hot-Jupiter exoplanets). How would you accomplish it? What are some important concepts to consider? Heat, solar wind, gravity, etc. What would you calculate? Heat, velocities, energy, must cancel Earth’s orbital velocity. What techniques?

Apparently Don calculated this, and he got that the velocity of the spacecraft falling to a point 0.04AU from the sun would be 3 million miles per hour!

- The Parker Probe will be moving 430,000 mph in its orbit around the Sun, the fastest moving human-made object. It will have to fly by Venus 7 times to get a gravity assist from it in order to “cancel out” the Earth’s orbital velocity on it

- **Astronomy News of the Week:** Presented by Chirag Rathi! Here’s the link -> http://www.astronomy.com/news/2018/08/minority-rules-in-neutron-stars?utm_source=SilverpopMailing&utm_medium=email&utm_campaign=News0_ASY_180824_000000_Final%20remainder&utm_content=&recipientID=NjgyMDA5MzMwNzgyS0%20&spMailingID=35745528&spUserID=NjgyMDA5MzMwNzgyS0&spJobID=1342481461&spReportId=MTM0MjQ4MTQ2MQS2 In the realm of neutron stars, the minority wins. Short-range correlation between interactions of atoms and neutron stars
 - Be sure to sign up for astro news of the week! It’s super fun and we like to know space news!
- **Club Picnic!** Will take place on Saturday Sept. 29th at Windy Point on Mt. Lemmon. We will have our picnic and then do some stargazing! We’ll be leaving from the south Steward parking lot at 4pm. Please bring some food to share (nothing that is messy or needs to be frozen) or a \$5 food donation. Please specify what food you will be bringing in the sign up sheet so we don’t have a picnic of just entirely chips and cookies (though that wouldn’t be the worst thing in the world)! Also if you can drive, please specify how many people you can have in your car!
- **Telescope Training/Movie Night:** Happened after the club meeting! We watched Hitchhiker’s Guide to the Galaxy!
- **Star Parties:** There will be one at Himmel Park Library on October 11th from 6-8pm. As of now, we will only be bringing our telescopes and we’ll only need about 4 volunteers. The sign up sheet will be sent out closer to the date.
- **Active Galactic Videos:** AGV is a student-run education group under Dr. Chris Impey and Dr. Matthew Wenger. They have a Youtube channel! <https://youtu.be/SjQM2wijiIww> and they are looking for people who want to promote astronomy in videos! Talk to Sammie if you’re interested!

- **Telescope Observing at Steward:** We have an actual observatory believe it or not! And you can come observe with it! Steward has a 21” telescope that will be open to observers starting September 17th (next week)! It will run Mondays-Thursdays from 7:30-10:30pm! Come look at stars, galaxies, nebula, and more!
- **233rd AAS Meeting (Seattle):** We plan on attending the meeting as a club and will get an approximate price of the trip soon. However, if you plan on going you will have to register yourself. Early registration for the meeting goes through September 27th, regular registration is from September 28th-November 8th, and late registration from November 9th to December 10th. If you plan on giving a talk or presenting a poster, the regular abstract submission deadline is through October 3rd @ 9pm ET. The late abstract submission deadline (for posters only) is through December 5th @ 9pm ET. For more information go to <https://aas.org/meetings/aas233>.
- **Astronomers:** Hey buddy,,,,,,,,,wanna get some snacks? There’s an unofficial Astro club snack store on 3rd floor outside Parker on bookshelf on the opposite side from the elevator and bathrooms. It’s restocked every week. And it’s open to everyone, including faculty. Honor system payment.
- **Society of Physics Students:** UA has a brand spankin new physics club! They meet every other Wednesday at 5pm in PAS 218. The next meeting will be Sep 19th. Go check them out if you like phun physics!
- **Pay your dues!** \$10 each semester, funds for trips, snacks, cool activities, shirts, etc. (a shirt might be included) Due it.

