

Meeting Minutes 4/9/2021

- General Club Announcements
 - Welcome!
 - Become an Active Member, fill out the form during the meeting!
 - Game night tonight!
 - ATOMM
 - 3:30-5 pm T/Th (Raphael Hviding)
 - Or by appointment
- TIMESTEP
 - Computational workshop. Workshop 2: Machine learning
 - Intermediate level coding (~PHYS 305 level)
 - April 14
- Physics Club!
 - Wednesdays at 6:30 P.M
 - Look for the link in the Discord!
- Club T-Shirts!
 - Vote!
 - Will do 2 orders: one this semester and one to start next semester
- Unofficial star parties!
 - Run by Don!
 - Thursdays at 6:30
- PTYS 297A
 - A professional development workshop class you could take
 - If you're interested in preceptorship
 - Email Kayli for more! kayliglidic@email.arizona.edu
- We may go back to meeting in N210!
 - Vote during the club meeting or by Sai's weekly email link so we can gauge interest
- Club Consitution!
 - Vote!
- Astro news of the week with Sai!
 - Muon g-2 experiment!
 - As you add more interactions, you should theoretically get that g factor as 2
 - CERN's experiment for a muon had a difference from theoretical
 - Standard model could be wrong! Maybe new physics!
 - Still 1 in 40,000 chance of this happening so maybe the Standard Model is fine
 - Got 4.2 sigma confidence, need 5 sigma to declare new science.
- Mentors with Sai!
 - Bijoy Bahadur Mathur
 - A large reason for Sai to go into science as a career
 - Mentors can completely change your direction.
 - Remember to thank them!

- Astro question of the week with Don!
 - Image from Mars!
 - Appears to be a rainbow in the sky
 - The atmosphere doesn't allow for rainbows
 - The current explanation is a lens glare but not certain
 - Is the sun tilted?
 - Consider the ecliptic plane - axis of the solar system
 - From this, the Sun's axis is tilted by 7 degrees
 - You could track this partially by solar flares
 - How many birds in the "sky"?
 - Some bird constellations are corvus, aquila, columba, cygnus.