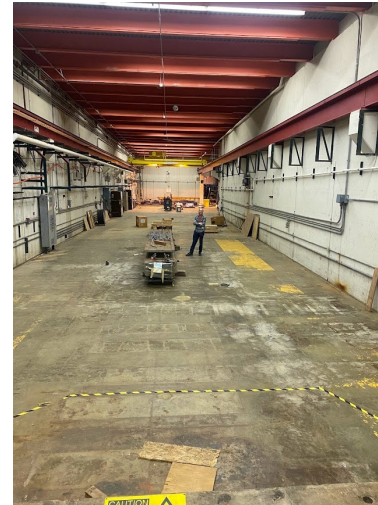


Tuesday Afternoon Program

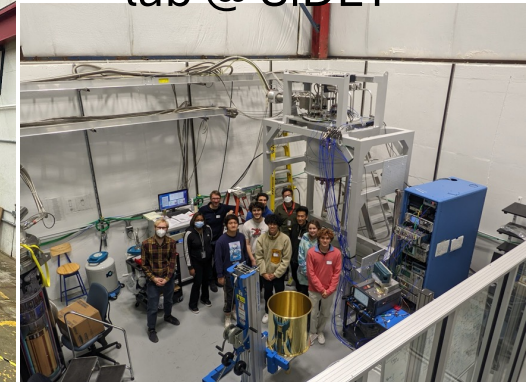
Tours

- Limited capacity for tours- we have 2 buses, each with 12 person capacity- about 24 people can see each location.
- Tours are in parallel with day 2 breakout discussion groups- will need to choose between tours and participation in some discussions.
- PW8- Future location of 9.4 Tesla solenoid. Tour guide: Rick Tesarek.
 - Currently an empty building - magnet scheduled for late May delivery
- Axion detector lab in SiDET Lab . Guides: Aaron Chou, Stefan Knirck.
 - Will see ADMX and sensor test stands and BREAD prototype.
- SQMS Quantum Sensor testing facility “Quantum Garage”. Guides: Bianca Giaccone, Raphael Cervantes.

PW8



Axion detector lab @ SiDET



Quantum Garage

Tour Schedule

| Location | What you will see | Transportation | Guides | |
|-------------------------------|---|--|------------------------------------|------------------|
| Quantum Garage in IARC | Quantum sensor test stands | Walking tour departs 12:40 from Big Room | Bianca Giaccone/ Raphael Cervantes | |
| SiDET Lab B Axion Lab | Axion detector R&D: ADMX, BREAD, Qubits | Buses at 1:30 and 2:30 from Wilson Hall | Aaron Chou/ Stefan Knirck | |
| PW8 | Empty building-- future home of Dark Wave Lab | Buses at 1:30 and 2:30 from Wilson Hall | Rick Tesarek | |
| Sign up for tours: | | | | |
| Quantum Garage @ 12:40 | SiDET Lab B @ 1:30 | SiDET Lab B @ 2:30 | PW8@ 1:30 | PW8@ 2:30 |
| 1 Béla Majorovits | Ben McAllister | < Your Name > | Hugh Lippincott | Béla Majorovits |
| 2 Shion Chen | Béla Majorovits | | Si Xie | Elisa Del Core |
| 3 Chiara Salemi | Elisa Del Core | | Christina Wang | Chiara Salemi |
| 4 | Aaron Quiskamp | | Shion Chen | |
| 5 | | | | |
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Discussion Period Today 1:40- 3:30 pm

- This starts after lunch in Wilson Hall Cafeteria
- Overlaps with tours.
- Need to be escorted by someone with a badge to go upstairs.
- Please keep notes in google doc: <https://docs.google.com/document/d/1SCLGFNXNWfVeUGqbE44Fml-F2Tahj1dPtvpAZlIX6Ow/edit?usp=sharing>

| Discussion | Room | Location |
|-------------------------------|-----------------|---|
| Low Frequency < 700 MHz | Hornet's Nest | Wilson Hall 8 th Floor crossover |
| Mid Frequency 0.7-10 GHz | Black Hole | Wilson 2 nd floor NW |
| Dielectric Disk and Broadband | West Wing | Wilson 10 th Floor NW |
| Sensors, Qbits, etc | Req Room | Wilson 4 th floor NW |
| Available | Virtual Reality | Wilson 3 rd floor SE |

Closeout Session 3:30- 5:00 pm

- Come back to Building 327 for 3:30 for Coffee Break
- Will ask for volunteers to summarize discussion sessions.
- Some topics for discussion
 - What do we think are most promising projects for
 - Room temperature running 2025-2026
 - 4-Kelvin experiments 2027-2028
 - 100- mK or below after 2028
 - What are test facilities we should have to realize these projects?
 - What additional magnet facilities would make sense long term?
 - Additional opportunities for collaboration that should be pursued.
 - How to organize writing a white paper.