

WiFi:

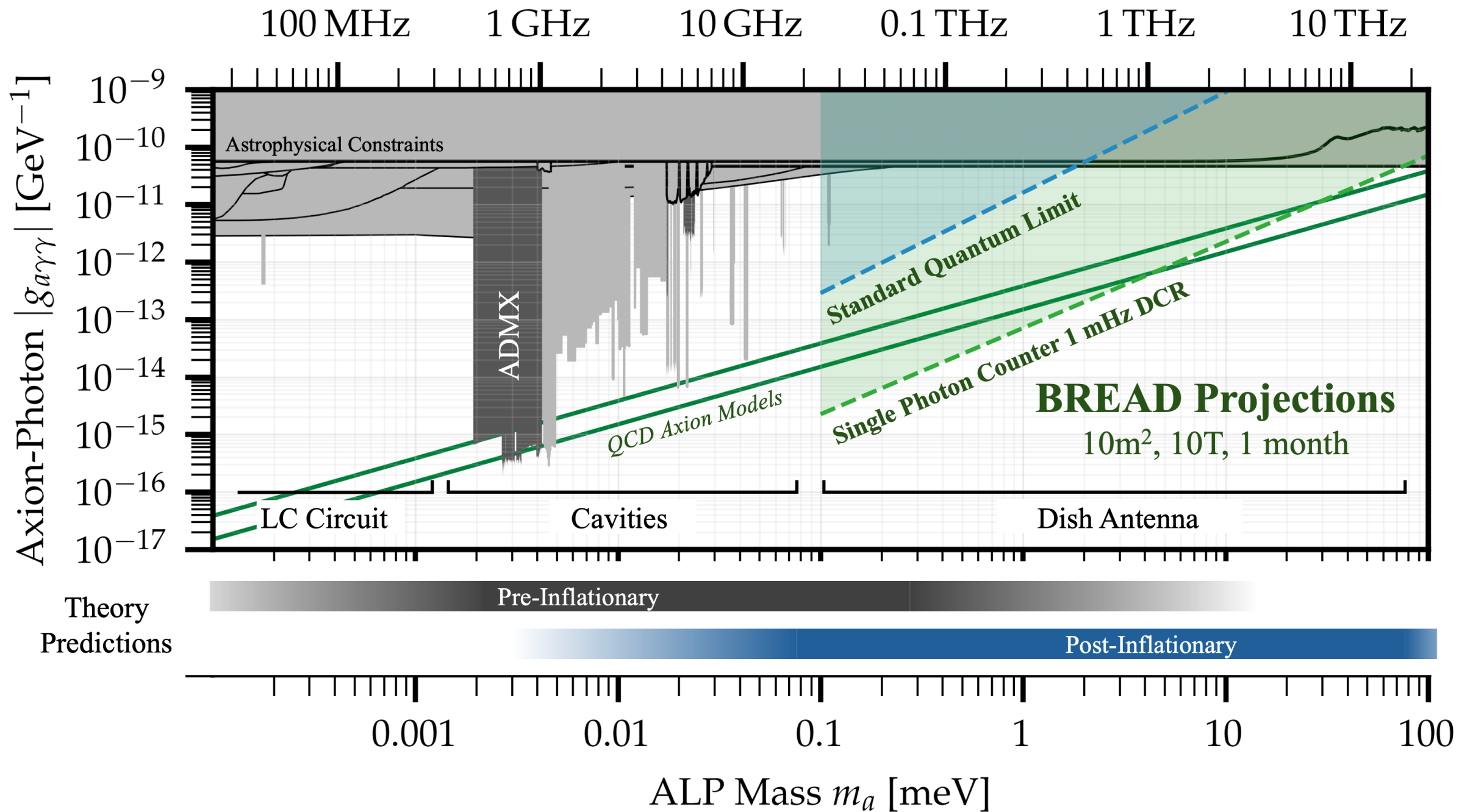
<https://getonline.harvard.edu/>



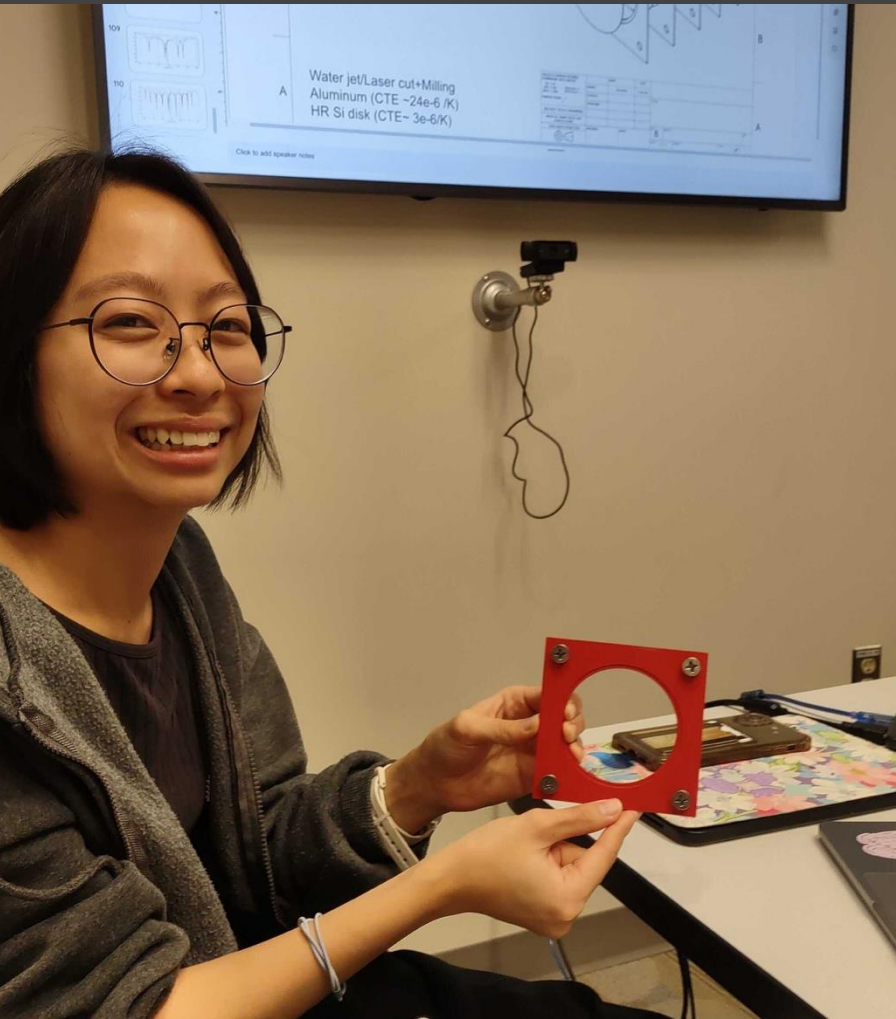
WELCOME



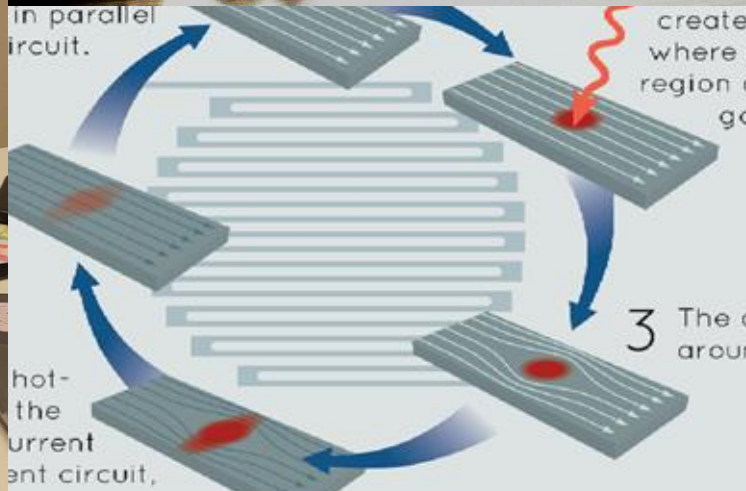
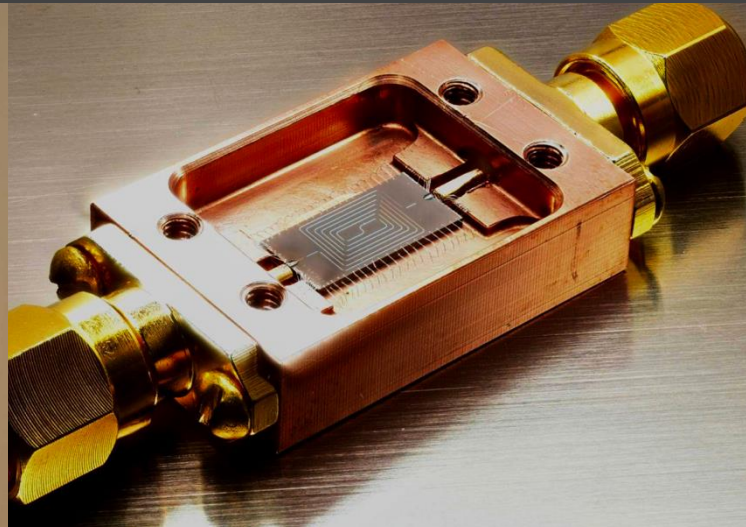
Broadband
Reflector
Experiment for Axion
Discovery



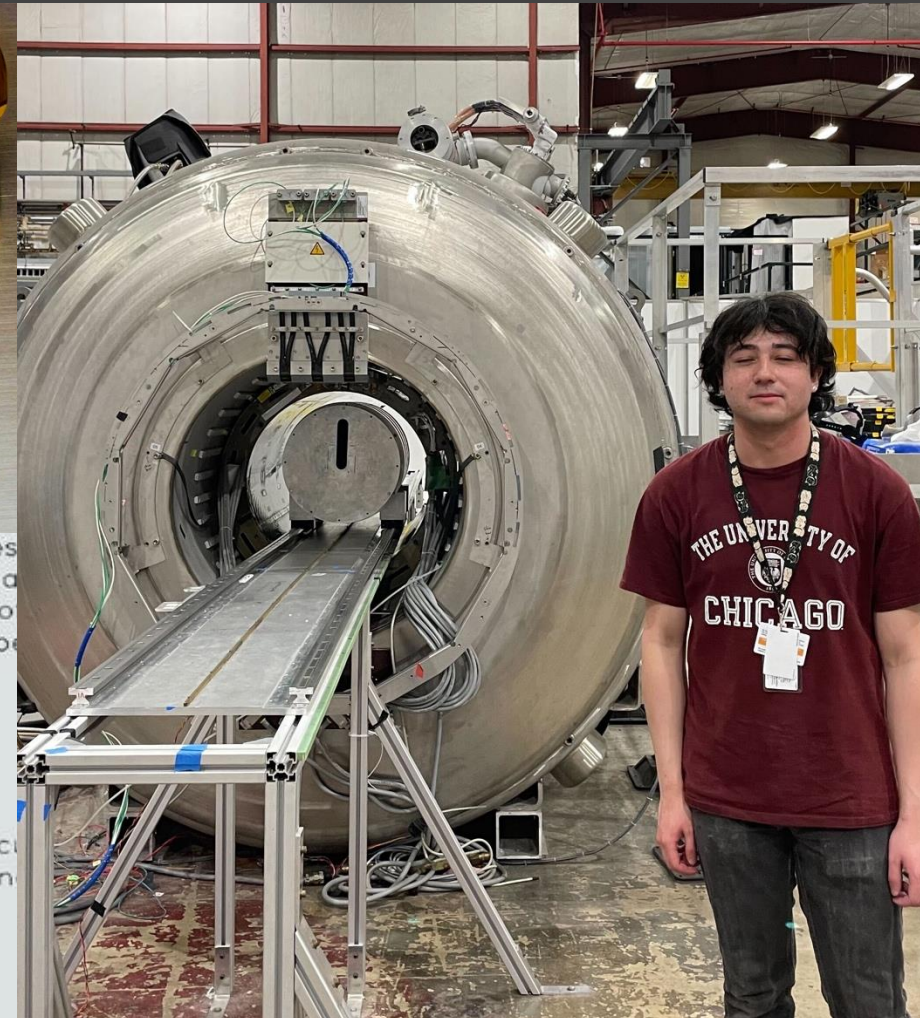
We need...



Large Signal:
Haloscope R&D

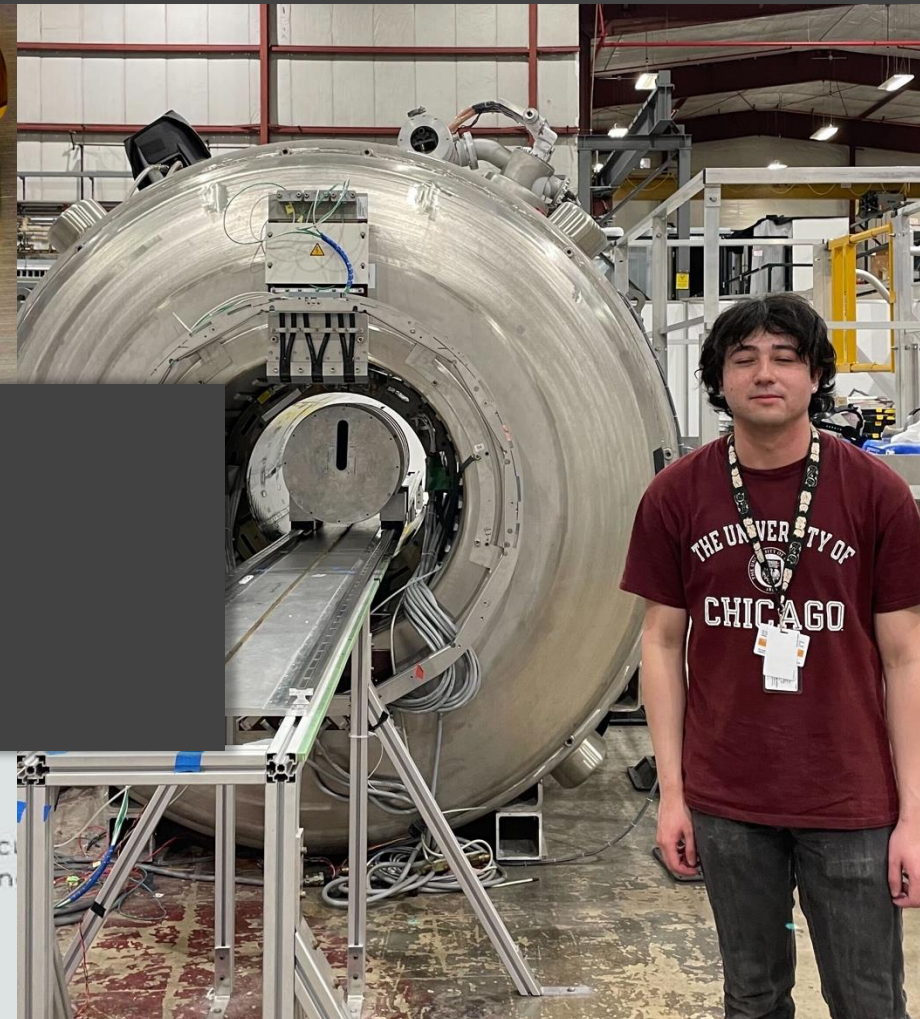
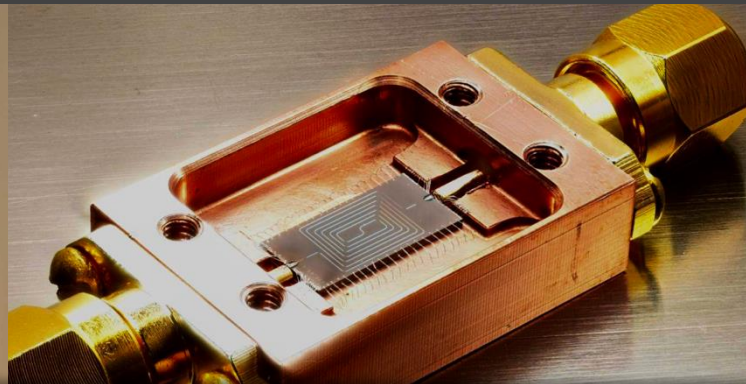
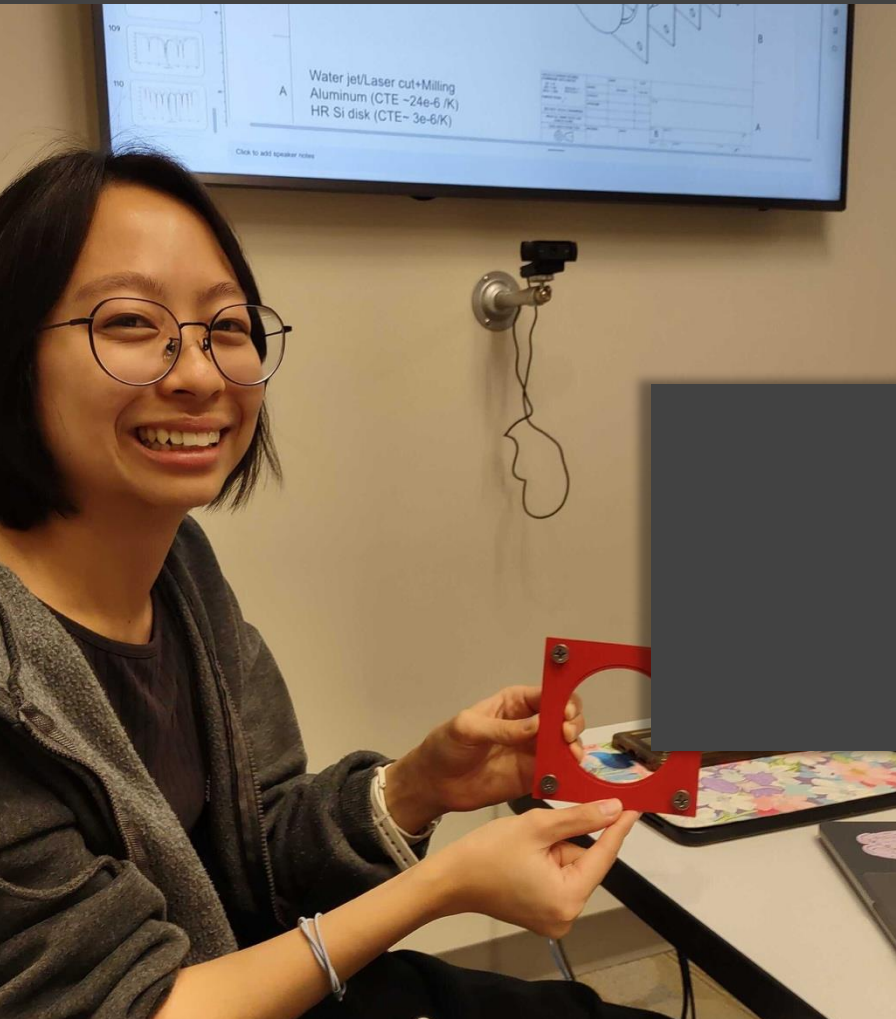


Low Noise:
Detectors

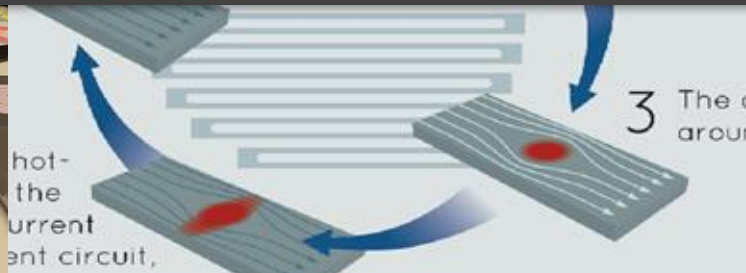


Large Magnets:
Facilities

We need...



YOU



Large Signal:
Haloscope R&D

Low Noise:
Detectors

Large Magnets:
Facilities

Agenda

BREAD Collaboration Workshop			
14 Jan 2020, 08:30 → 16 Jan 2020, 19:00 UTC+08:00 Harvard University			
Description BREAD COLLABORATION We are excited to host the next BREAD collaboration workshop at Harvard University in January! Start: Wednesday, January 14, 8am End: Friday, January 16, 2020, afternoon Location: Harvard University Physics Department Jefferson Lab 205 Accommodation: We have reserved a hotel block with Hotel Veritas, which is about a 5-10min walk to the venue. Please use this link to book: https://us.hilton.com/en/hotels/harvard-university-hotel-veritas/index.jsp?cid=US-HOTEL-VERITAS-2020-01-13&checkin=2020-01-16&checkout=2020-01-16&roomtype=standard Please note that booking with the group code is not eligible for rewards. The hotel and trip are currently being held for website to receive reservation. Poster Contributions: Please feel free to bring all posters of any work that you are doing and want to share. We will be happy to put them up during the dinner on Friday. Please just email us so we can carry for the right number of poster boards. Social Events: We will have a social dinner on the first day and go ice skating on the second day, see details below.			
Registration You are registered for this event.			
Contact liam.hughes@harvard.edu liam.hughes@harvard.edu			
WEDNESDAY, 14 JANUARY			
08:30 09:00 Breakfast			
09:00 09:45 Welcome and Theory			
09:00 Welcome and Logistics			
09:15 Speaker: Stefan Koenig (Harvard University)			
09:30 A Theory Perspective on Axions			
09:45 Speaker: Prof. Matt Reece			
10:00 10:15 GigaBREAD and Q&A Session			
10:00 Co-moderator: Morgan LeBlond (Harvard)			
10:05 GigaBREAD Overview			
10:10 Speaker: Mike Kennedy (MIT + Harvard)			
10:20 Reflector Mechanical Design and Fridge Integration			
10:30 Speaker: Alex Budd (Harvard)			
10:40 Coffee			
10:50 KI-TWAs			
10:55 Speaker: Dr. Cornelia Ditz			
11:05 J-TWAs			
11:10 Speaker: Jennifer Wang (MIT)			
11:20 Discussion Time			
12:00 12:30 Lunch			
12:30 12:45 Based Lectures Provided			
12:45 1:00 QualityBREAD: SlicEBREAD and non-wave amplifiers			
12:45 Co-moderator: Dr. Andrew Sommerhafer (Harvard)			
1:00 QualityBREAD - Simulations, and W-Band Receiver			
1:05 Speaker: Gabe Hoffman (CERN)			
1:15 SlicEBREAD - Idea and Sensitivity			
1:20 Speaker: Iwan Joubert (Harvard)			
1:30 SlicEBREAD - First Measurements			
1:35 Speaker: Scott Knapton (Harvard)			
1:45 Dielectric Material Characterization with non-wave Fabry Perot Cavities			
1:50 Speaker: David Marshall (Harvard)			
1:55 Dielectric Stack Diagnostics and SIE Detectors			
2:00 Speakers: Dr. Edward Tuting (CERN), Dr. Ananthakrishnan Shankaranand Subramanian, Kiana Carter (under the leadership of Harvard's Subramanian)			
2:10 Discussion			
2:30 2:45 Coffee			
2:45 2:55 Other Axion Searches			
2:45 Co-moderator: Prof. David Miller (Harvard)			
2:55 Fermilab Axion Cavity Experiment with JPA / Transmon qbit			
3:00 Speaker: Morgan LeBlond (Harvard University)			
3:10 MAXIMA - Updates and Single Photon Detection Plans			
3:15 Speaker: Jason Hertzberg (Harvard University)			
3:30 3:45 Towards a Large-Scale BREAD program			

Agenda

Wed

GigaBREAD
SlicedBREAD
QualityBREAD

Dinner

PI Discussion I
Lab Tour Group 1

Thu

TeraBREAD
THz Sensing

Ice Skating

Group Picture
PI Discussion II
Lab Tour Groups 2 and 3

Fri

InfraBREAD

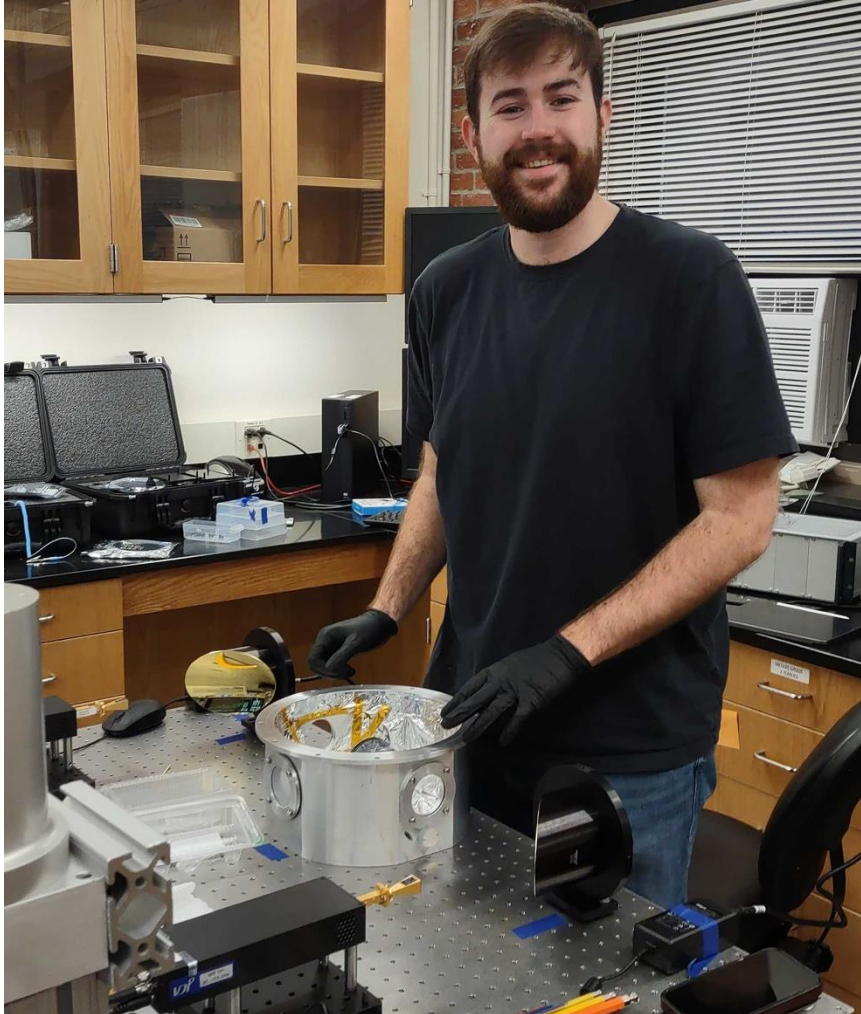
R&D, Discussions

Lab Tour Group 4

“PI Discussions”

- Wed evening; Thu after lunch; here
- Towards a larger-scale BREAD:
 - Strategy and Funding
- BREAD Collaboration
 - Draft Bylaws: Membership, Authorship, Governance, etc.
- open to everyone

Lab Tours: Sign Up!



<https://docs.google.com/spreadsheets/d/1YjhHgJVmC0iYph8MZ-nQhwjPaD6HMEe2SO6d0nt01Uw/edit?gid=0#gid=0>



BREAD Collaboration Activities, Sign Up					
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Q Menus 100% 123 Arial 10 B I A					
A1 fx					
	A	B	C	D	E
1					
2					
3	Group 1		Group 2		Group 3
4	overlaps with PI discussion				overlaps with PI discussion
5	Jan. 14, 5:00-6:00pm		Jan. 15, 12:20-1:05pm		Jan. 15, 1:05-2:05pm
6					
7					
8	Tour Leader: Alex, Grant		Tour Leader: Maja, I-see		Tour Leader: Grant, Alex
9					
10	Name	Email Address	Name	Email Address	Name Email Address
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PIs: Groups 2, 4,

Students: Prefer Group 1 and 3, then 2 and 4.

Location: Jefferson 156 (underneath you)

Lab Tours: Sign Up!



<https://docs.google.com/spreadsheets/d/1YjhHgJVmC0iYph8MZ-nQhwjPaD6HMEe2SO6d0nt01Uw/edit?gid=0#gid=0>



BREAD Collaboration Activities, Sign Up					
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Pls: Groups 2, 4,

Students: Prefer Group 1 and 3, then 2 and 4.

Location: Jefferson 156 (underneath you)

Dinner today / Lunch Wed, Thu **Jefferson “Library”, follow signs**



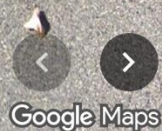
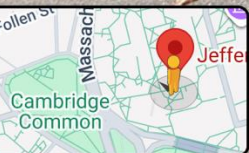


Cambridge, Massachusetts
Google Street View

Oct 2024

Group Picture

- tomorrow before lunch
- entrance staircase





Ice Skating Tomorrow: **Sign Up!**

<https://docs.google.com/spreadsheets/d/1YjhHgJVmC0iYph8MZ-nQhwjPaD6HMEe2SO6d0nt01Uw/edit?gid=1275134310#gid=1275134310>



*12\$ skate rental,
7\$ admission*

Leave here 4pm

