



High Energy Astrophysics Division (HEAD)

21st Meeting

7-12 April 2024

Horseshoe Bay, Texas

Meeting Program

With support from



Sunday, 7 April 2024

4:00 PM HEAD Executive Committee Meeting (Invitation Only), 4:00 – 5:00 pm, Mesquite

7:00 PM Total Eclipse of the Sun - A Public Talk by Dave Pooley, 7:00 pm – 8:00 pm, Granite Ballroom DEFGH

Monday, 8 April 2024

8:00 AM Registration, 8:00 am – 11:30 am, 3:30 pm – 6:00 pm, Registration Desk

Speaker Ready Desk, 8:00 am – 6:00 pm, Back of the Granite Ballrooms

9:00 AM Exhibit Hall Hours, 9:00 am – 7:00 pm, Tower Palm Pavilion

10:00 AM **100 – Special Session:** Animating the Eclipse! (Organizer: Robin Corbet), 10:00 am – 11:30 am, Cottonwood1:34 PM **The Total Solar Eclipse**, 1:34 pm – 1:38 pm, Waterfront Bar and Grill

2:00 PM Chuck Wagon Bar-be-que Lunch, 2:00 pm – 3:30 pm, Waterfront Bar and Grill

3:30 PM IXPE Interactive Data Analysis, 3:30 pm – 5:00 pm, Cottonwood

5:00 PM **101 – Plenary Lecture:** Mark Clampin, 5:00 pm – 6:00 pm, Granite Ballroom DEFGH

6:00 PM Poster Viewing & Happy Hour, 6:00 pm – 7:00 pm, Tower Palm Pavilion

Poster Sessions 102 – 108**102** AGN**104** ISM/Galaxies**106** Multi-messenger
Astrophysics**108** Time-domain Astrophysics**103** Galaxy Clusters/Large
Scale Structures**105** Mission and Instruments**107** Stellar/Compact Objects**Tuesday, 9 April 2024**

7:30 AM Registration, 7:30 am – 7:45 pm, Registration Desk

Speaker Ready Desk, 7:30 am – 7:45 pm, Back of the Granite Ballrooms

7:55 AM **200 – Welcome Address:** Kristen Madsen, HEAD Chair, 7:55 am – 8:00 am, Granite Ballroom DEFGH8:00 AM **201 – Oral Session:** Stellar/Compact I, 8:00 am – 9:30 am, Granite Ballroom DEFGH

9:00 AM Exhibit Hall Hours, 9:00 am – 6:00 pm, Tower Palm Pavilion

9:30 AM AM Coffee Break, 9:30 am – 10:10 am, Tower Palm Pavilion

Morning Poster Viewing & Student Poster Judging, 9:30 am – 10:10 am, Tower Palm Pavilion

10:10 AM **202 – Oral Session:** AGN I, 10:10 am – 11:40 am Granite Ballroom DEFGH12:05 PM **Splinter:** Tour the HEASARC: Highlighting tools and Services for all your High Energy Data Needs, 12:05 pm – 1:35 pm, Cottonwood**Splinter:** NASA X-Ray Science Interest Group session, 12:05 pm – 1:35 pm, Travertine1:40 PM **203 – Dissertation Finalists:** Milena Crnogorcevic, Brenna Mockler & Tyler Parsotan, 1:40 pm – 3:10 pm, Granite Ballroom DEFGH3:10 PM **204 – Oral Session:** Time-domain Astronomy, 3:10 pm – 4:40 pm, Granite Ballroom DEFGH4:40 PM **205 – Oral Session:** Multi-messenger Astrophysics, 4:40 pm – 6:10 pm, Granite Ballroom DEFGH6:10 PM **206 – Special Session:** NASA's Physics of the Cosmos Program Analysis Group, 6:10 pm – 7:40 pm, Granite Ballroom DEFGH

	207 – Special Session: Recent Advances in X-ray Polarimetric and Spectroscopic Studies of Accreting Stellar-mass Black Holes, 6:10 pm – 7:40 pm, Granite Ballroom ABC
7:40 PM	Social Mixer, Poster Viewing, & Student Poster Judging, 7:40 pm – 8:20 pm, Tower Palm Pavilion
Wednesday, 10 April 2024	
7:15 AM	HEAD Executive Breakfast (Invitation only), 7:15 am – 8:00 am, Mesquite
7:30 AM	Registration, 7:30 am – 7:00 pm, Registration Desk Speaker Ready Desk, 7:30 am – 7:00 pm, Back of the Granite Ballrooms
8:00 AM	300 – Oral Session: ISM/Galaxies, 8:00 am – 9:30 am, Granite Ballroom DEFGH
9:00 AM	Exhibit Hall Hours, 9:00 am – 6:00 pm, Tower Palm Pavilion
9:30 AM	AM Coffee Break, 9:30 am – 10:10 am, Tower Palm Pavillion Morning Poster Viewing & Student Poster Judging, 9:30 am – 10:10 am, Tower Palm Pavilion
10:10 AM	301 – Oral Session: Stellar/Compact II, 10:10 am – 11:40 am, Granite Ballroom DEFGH
12:05 PM	Splinter: Prioritizing Science Objectives to Maximize Time Domain Astronomy and Multi-Messenger Mission Capabilities, 12:05 pm – 1:35 pm, Granite Ballroom ABC Splinter: NASA Gamma Ray Science Interest Group Session , 12: 05 pm – 1:35 pm, Travertine
1:40 PM	302 – Special Session: New Insights into Magnetars, the Most Magnetic Stars in the Cosmos, 1:40 pm – 3:10 pm, Granite Ballroom ABC 303 – Special Session: First Results from XRISM, 1:40 pm – 3:10 pm, Granite Ballroom DEFGH
3:10 PM	PM Coffee Break, 3:10 pm – 4:30 pm, Tower Palm Pavillion Afternoon Poster Viewing & Student Poster Judging, 3:10 pm – 4:30 pm, Tower Palm Pavillion
4:30 PM	304 – Plenary Lecture: Early Career Prize Lecture: Yuanyuan Su (University of Kentucky), 4:30 pm – 5:15 pm, Granite Ballroom DEFGH
5:20 PM	306 – Special Session: Tidal Disruption Events Across the Electromagnetic Spectrum, 6:10 pm – 7:40 pm, Granite Ballroom DEFGH 307 – Special Session: Future Innovations in Gamma-ray Science Analysis Group 5:20 pm – 6:50 pm, Granite Ballroom ABC
6:50 PM	Poster Viewing/Happy Hour, 6:50 pm – 8:30 pm, Tower Palm Pavilion
7:30 PM	Early Career Happy Hour, 7:30 pm – 8:30 pm, Yacht Club Ballroom
Thursday, 11 April 2024	
7:30 AM	Registration, 7:30 am – 6:00 pm, Registration Desk Speaker Ready Desk, 7:30 am – 7:00 pm, Back of the Granite Ballrooms
8:00 AM	400 – Oral Session: AGN II, 8:00 am – 9:30 am, Granite Ballroom DEFGH
9:00 AM	Exhibit Hall Hours, 9:00 am – 6:00 pm, Tower Palm Pavilion
9:30 AM	AM Coffee Break, 9:30 am – 10:10 am, Tower Palm Pavillion Morning Poster Viewing, 9:30 am – 10:10 am, Tower Palm Pavilion
10:10 AM	401 – Oral Session: Galaxy Clusters/Large Scale StructureI, 10:10 am – 11:40 am, Granite Ballroom DEFGH
12:05 PM	Splinter: New paths of data-driven discovery with the Chandra Source Catalog, 12:05 pm – 1:35 pm, Cottonwood

	Splinter: Time-domain and Multi-messenger Astrophysics with Neutrinos, 12:05 pm – 1:35 pm, Granite Ballroom ABC
1:40 PM	402 – Special Session: Probing Blazar Jets with Multi-wavelength Polarization, 1:40 pm – 3:10 pm, Granite Ballroom DEFGH
	403 – Special Session: Chandra at 25, 1:40 pm – 3:10 pm, Granite Ballroom ABC
3:10 PM	PM Coffee Break, 3:10 pm – 3:40 pm, Tower Palm Pavillion
	Afternoon Poster Viewing, 3:10 pm – 3:40 pm, Tower Palm Pavillion
3:40 PM	404 Plenary Lecture: Innovation Prize Lecture: Javier Garcia, Thomas Dauser, & Tim Kallman, 3:40 pm – 4:30 pm, Granite Ballroom DEFGH
4:30 PM	405 – Plenary Lecture: Distinguished Career Lecture: Roger Chevalier (University of Virginia), 4:30 pm – 5:15 pm, Granite Ballroom DEFGH
5:20 PM	406 – Special Session: Exploring the MeV Gamma-ray Sky: The Past, Present, and Future, 5:20 pm – 6:50 pm, Granite Ballroom DEFGH
	407 – Special Session: Illuminating the Formation Channels of Compact Binary with Gravitational Waves, 5:20 pm – 6:50 pm, Granite Ballroom ABC
6:50 PM	Poster Viewing/Happy Hour, 6:50 pm – 7:30 pm, Tower Palm Pavilion
Friday, 12 April 2024	
7:30 AM	Registration, 7:30 am – 3:15 pm, Registration Desk
	Speaker Ready Desk, 7:30 am – 3:15 pm, Back of the Granite Ballrooms
8:00 AM	500 – Oral Session: Mission & Instruments, 8:00 am – 9:30 am, Granite Ballroom DEFGH
9:00 AM	Exhibit Hall Hours, 9:00 am – 6:00 pm, Tower Palm Pavillion
9:30 AM	AM Coffee Break, 9:30 am – 10:10 am, Tower Palm Pavillion
	Morning Poster Viewing, 9:30 am – 10:10 am, Tower Palm Pavilion
10:10 AM	501 – Oral Session: Stellar/Compact III, 10:10 am – 11:40 am, Granite Ballroom DEFGH
1:40 PM	502 – Oral Session: Stellar/Compact IV, 1:40 pm – 3:10 pm, Granite Ballroom DEFGH
3:10 PM	Closing Remarks/Student Poster Winners, 3:10 pm – 3:15 pm, Granite Ballroom DEFGH
3:15 PM	Ice Cream Social, 3:15 pm – 4:15 pm, Falls Point Lawn



Tower Palm Pavilion
 Poster Sessions,
 Poster Happy Hours,
 Coffee Breaks, and Exhibits

Palm D'Or Pavilion

Tower Live Oak Lawn

Whitewater 360 Sports Club

Hi Circle North

Hotel

Conference Entrance

Whitewater Veranda

Putting Course

Palm D'Or Lawn

The Jungle Kids Club

Palm Villas

Tennis

J's

Lobby

Hotel Pool

Registration Desk

Conference Registration

Grab and Go

Lounge North

Lounge South

J's Wine Room

J's Bar

J's Patio

Cypress

Cedar

Hickory

Mesquite

Live Oak

Post Oak

The Jungle Kids Club

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Poster Sessions, Poster Happy Hours, Coffee Breaks, and Exhibits

Tennis

1. J'S RESTAURANT & BAR
2. THE MARKET
3. CAFE DEL SOL & HOTEL POOL
4. PALM PAVILION
5. PASEO POOL & FITNESS CENTER
6. BASELINE TENNIS & PICKLEBALL PRO SHOP
7. THE JUNGLE KIDS CLUB
8. WHITEWATER 360 SPORTS CLUB
9. WHITEWATER CAFÉ 360
10. WATERFRONT BAR & GRILL (THE SHACK & SAND BAR)
11. MARINA
12. BAYSIDE SPA & SALON
13. MARINA DEL BAY
14. YACHT CLUB DINING & Y BAR
15. YACHT CLUB BEACH BAR & POOL (MEMBERS ONLY CLUB)
16. WATERS BUILDING #2
17. WATERS BUILDING #3
18. WATERS BUILDING #4
19. WATERS BUILDING #5
20. WATERS BUILDING #6
21. 101A OASIS | 101 B OASIS
22. 109 OASIS
23. 111 OASIS
24. 107D COVE EAST
25. 202 & 203 COVE WEST
26. CAPE TERRACE | #601 & #703
27. 1002 RED SAILS
28. 309 SHORT CIRCUIT
29. 412 SHORT CIRCUIT #6



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