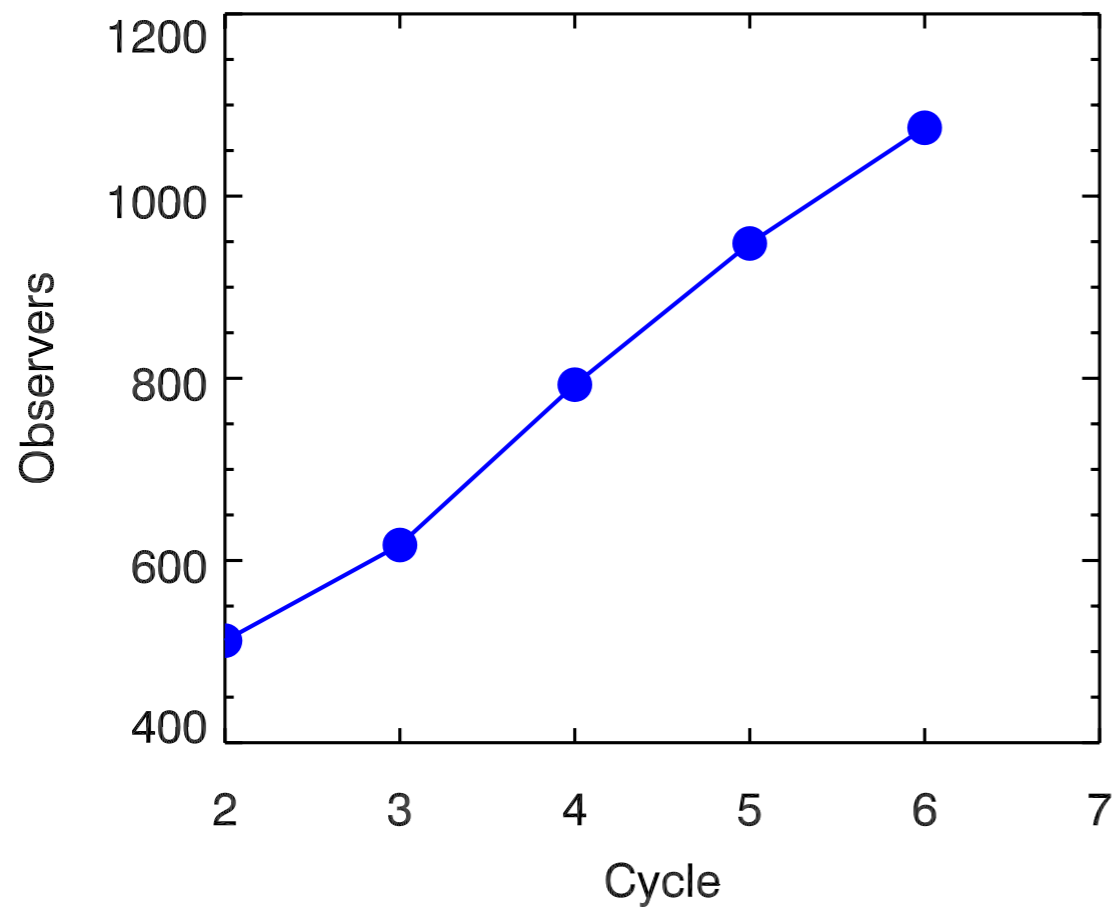
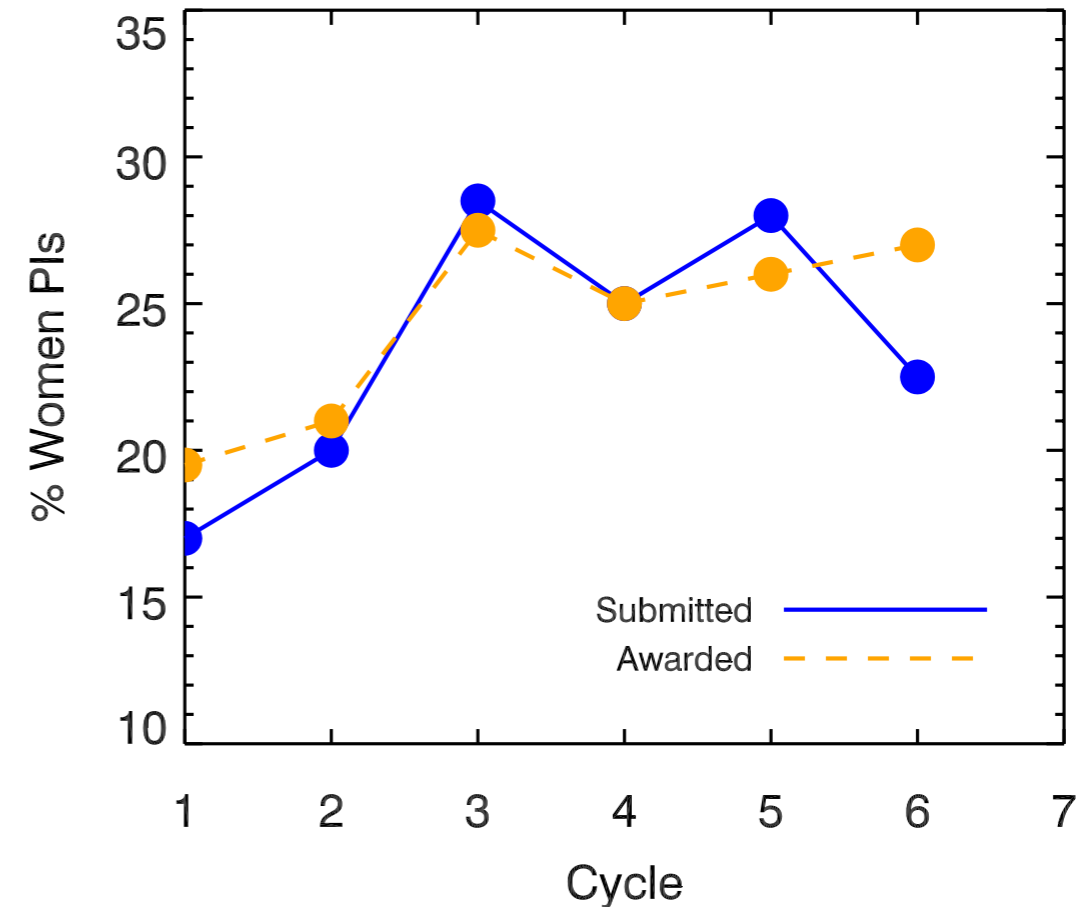


Building a Community of the Future

Current State of SOFIA's Community



SOFIA community is growing



PI selection process is gender neutral

Reaching Out to the Community

Encourage more early career scientists and graduate students to use SOFIA and to be PIs on the observing proposals. (Guaranteed funding is very attractive and provides stability to early career scientists.)

- Targeted emails to department chairs
- Strong SOFIA presence at focused conferences (other than AAS)
- Highlighting SOFIA synergy with other ground and space based facilities
- Early career scientists on SOFIA TAC (at least 50% early career?)
- Get SOFIA science featured in AAS nova and other venues
- Inviting graduate student to the science center to give their thesis talks
- Social Media (astronomer's Facebook page ~9200 users, twitter)

Reaching Out to the Community

Encourage more early career scientists and graduate students to use SOFIA and to be PIs on the observing proposals. (Guaranteed funding is very attractive and provides stability to early career scientists.)

- Targeted emails to department chairs
- Strong SOFIA presence at focused conferences (other than AAS)
- Highlighting SOFIA synergy with other ground and space based facilities
- Early career scientists on SOFIA TAC (at least 50% early career?)
- Get SOFIA science featured in AAS nova and other venues
- Inviting graduate student to the science center to give their thesis talks
- Social Media (astronomer's Facebook page ~9200 users, twitter)

Targeted Emails

Solicitation for SOFIA Contributed Posters at the 2019 Winter A...

Subject: [NRAO Announcements] Contributed posters solicited for AAS
From: NRAO Announcements <nrao-announcements@listmgr.nrao.edu>
Date: 9/5/18, 11:53 AM
To: "Nrao-announcements@nrao.edu" <Nrao-announcements@nrao.edu>

The NRAO is pleased to solicit contributed posters to three Special Sessions (described below) that have been accepted for the January 2019 American Astronomical Society (AAS) meeting in Seattle. When submitting a contributed poster abstract to the AAS, you may request that your presentation be included in one of these Special Sessions.

The deadline for abstract submission is
Wednesday, 3 October 2018, 21:00 Eastern Time.
<https://aas.org/meetings/aas233/abstracts>

"Exploring our Cosmic Origins: New Results from the Atacama Large Millimeter/submillimeter Array"
Wednesday, 9 January 2019, 10:00–11:30 Pacific Time
<http://go.nrao.edu/alma-special-session>

"Theoretical Advances Guided by Radio-Millimeter-Submillimeter Arrays"
Wednesday, 9 January 2019, 14:00–15:30 Pacific Time
<http://go.nrao.edu/rms-special-session>

"VLA Sky Survey Special Session"
Thursday, 10 January 2019, 10:00–11:30 Pacific Time
<http://go.nrao.edu/vlass-special-session>

Subject: Solicitation for SOFIA Contributed Posters at the 2019 Winter AAS Meeting
From: "Moulet, Arielle" <amoulet@usra.edu>
Date: 9/27/18, 1:07 PM
To: "Schmelz, Joan" <jschmelz@usra.edu>, "Klein, Randolph" <rklein@sofia.usra.edu>
CC: "Moulet, Arielle" <amoulet@usra.edu>

Dear SOFIA observers,

As you may have seen in recent announcements, [SOFIA is organizing several events](#) at the upcoming 2019 Winter AAS meeting in Seattle with a [data workshop](#) on Sunday, a special session on Monday, a Town Hall on Tuesday, and tours of the plane throughout the week. This is a great opportunity for you to showcase your latest SOFIA results.

We would be thrilled to see your results presented at AAS, and we strongly encourage you to submit an abstract on your SOFIA data. If you or one of your collaborators works on star formation, please consider submitting a poster to the special session, The Role of Magnetic Fields and Filaments in Star Formation. The deadline for abstract submission is **Wednesday, October 3rd at 21:00 Eastern Time**. Abstracts should be submitted here: <https://aas.org/meetings/aas233/abstracts>.

Please do not hesitate to let us know if there is anything we can do to facilitate the presentation of your SOFIA results at the AAS meeting. We would be happy to help you with your data or your poster display options. Please contact us for assistance via the helpdesk at sofia_help@sofia.usra.edu.

We hope to see you in Seattle!

Best regards,
The SOFIA Science Center team

Reaching Out to the Community

Encourage more early career scientists and graduate students to use SOFIA and to be PIs on the observing proposals. (Guaranteed funding is very attractive and provides stability to early career scientists.)

- Targeted emails to department chairs
- Strong SOFIA presence at focused conferences (other than AAS)
- Highlighting SOFIA synergy with other ground and space based facilities
- Early career scientists on SOFIA TAC (at least 50% early career?)
- Get SOFIA science featured in AAS nova and other venues
- Inviting graduate student to the science center to give their thesis talks
- Social Media (astronomer's Facebook page ~9200 users, twitter)

Reaching Out to the Community

Encourage more early career scientists and graduate students to use SOFIA and to be PIs on the observing proposals. (Guaranteed funding is very attractive and provides stability to early career scientists.)

- Targeted emails to department chairs
- Strong SOFIA presence at focused conferences (other than AAS)
- Highlighting SOFIA synergy with other ground and space based facilities
- Early career scientists on SOFIA TAC (at least 50% early career?)
- Get SOFIA science featured in AAS nova and other venues
- Inviting graduate student to the science center to give their thesis talks
- Social Media (astronomer's Facebook page ~9200 users, twitter)

Reaching Out to the Community

Encourage more early career scientists and graduate students to use SOFIA and to be PIs on the observing proposals. (Guaranteed funding is very attractive and provides stability to early career scientists.)

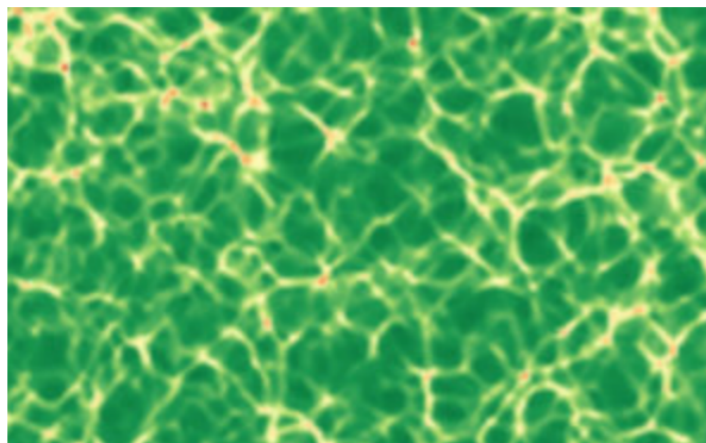
- Targeted emails to department chairs
- Strong SOFIA presence at focused conferences (other than AAS)
- Highlighting SOFIA synergy with other ground and space based facilities
- Early career scientists on SOFIA TAC (at least 50% early career?)
- Get SOFIA science featured in AAS nova and other venues
- Inviting graduate student to the science center to give their thesis talks
- Social Media (astronomer's Facebook page ~9200 users, twitter)

Reaching Out to the Community

Encourage more early career scientists and graduate students to use SOFIA and to be PIs on the observing proposals. (Guaranteed funding is very attractive and provides stability to early career scientists.)

- Targeted emails to department chairs
- Strong SOFIA presence at focused conferences (other than AAS)
- Highlighting SOFIA synergy with other ground and space based facilities
- Early career scientists on SOFIA TAC (at least 50% early career?)
- Get SOFIA science featured in AAS nova and other venues
- Inviting graduate student to the science center to give their thesis talks
- Social Media (astronomer's Facebook page ~9200 users, twitter)

HIGHLIGHTS



3 October 2018 **FEATURES**

Investigating Our Expanding Universe

The universe is expanding – but we’re still not sure how quickly! A new study investigates whether we can resolve the conflict between measurements of its expansion rate.



2 October 2018 **ASTROBITES**

The Tortoise and the Star

Astrobites reports on why we need to better understand the bubbling, broiling surfaces of stars in order to interpret to



1 October 2018 **IMAGES**

Featured Image: A CHIME Search for Fast Radio Bursts

The CHIME radio telescope has a new goal: to hunt for the elusive fast radio bursts thought to occur across the sky.

JOURNALS DIGEST

4 October 2018

A Planetary Microlensing Event with an Unusually Red Source Star: MOA-2011-BLG-291

David P. Bennett et al 2018 *AJ* **156** 113

The planetary microlensing event MOA-2011-BLG-291 has a source star that is redder (or brighter) than the bulge main sequence, suggesting that it may not lie in the galactic bulge.

3 October 2018

Predictability of the Solar Cycle Over One Cycle

Jie Jiang et al 2018 *ApJ* **863** 159

A scheme is presented to investigate the predictability of the solar cycle over one cycle; when

AAS Nova strives to share current astrophysical research published in the AAS journals: *The Astronomical Journal (AJ)*, *The Astrophysical Journal (ApJ)*, *The Astrophysical Journal Letters (ApJL)*, and *The Astrophysical Journal Supplements (ApJS)*.

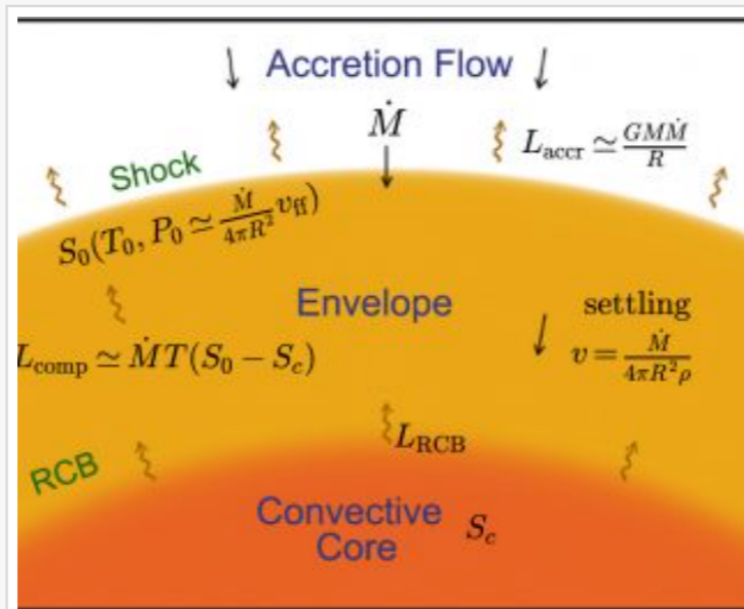
- Highlights
- Journal Digest
- Astrobites (reprint)
- Featured images

Featured Astrobites

Our latest posts

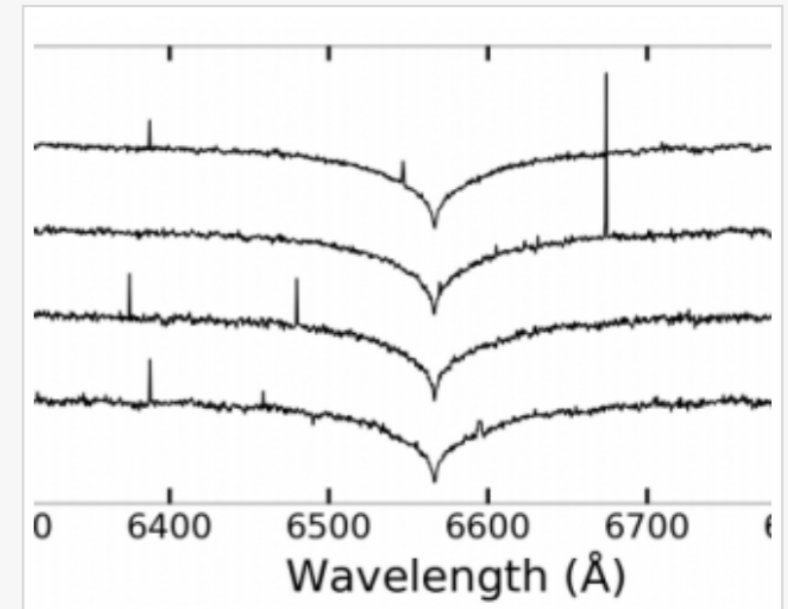


[How Many Planets Will We Find Around White Dwarfs?](#)



[Some Like it Hot](#)

by Eckhart Spalding | Oct 3, 2018



[Gravitational Redshift and the Pup: Measuring the Mass of Sirius B](#)

Reaching Out to the Community

Encourage more early career scientists and graduate students to use SOFIA and to be PIs on the observing proposals. (Guaranteed funding is very attractive and provides stability to early career scientists.)

- Targeted emails to department chairs
- Strong SOFIA presence at focused conferences (other than AAS)
- Highlighting SOFIA synergy with other ground and space based facilities
- Early career scientists on SOFIA TAC (at least 50% early career?)
- Get SOFIA science featured in AAS nova and other venues
- Inviting graduate student to the science center to give their thesis talks
- Social Media (astronomer's Facebook page ~9200 users, twitter)

Reaching Out to the Community

Encourage more early career scientists and graduate students to use SOFIA and to be PIs on the observing proposals. (Guaranteed funding is very attractive and provides stability to early career scientists.)

- Targeted emails to department chairs
- Strong SOFIA presence at focused conferences (other than AAS)
- Highlighting SOFIA synergy with other ground and space based facilities
- Early career scientists on SOFIA TAC (at least 50% early career?)
- Get SOFIA science featured in AAS nova and other venues
- Inviting graduate student to the science center to give their thesis talks
- Social Media (astronomer's Facebook page ~9200 users, twitter)

Reaching out to the ALMA & JWST communities

Have representation on the JWST and ALMA/NRAO users committees, JSTUC and ANASAC.

- We have reached out to JSTUC and have a preliminary agreement to send a SOFIA representative to their next meeting
- We should also reach out to the ALMA/NRAO users group

Adding New Capabilities

Adding new capabilities to SOFIA - access (or expanding) to new areas of astrophysics (exoplanets, extragalactic, astrochemistry)

- Expanding wavelength coverage in the sub millimeter to fill ALMA gaps and/or overlap with higher ALMA bands
- Ability to get larger instantaneous bandpass with high spectral resolution - simultaneous detections of several atomic and molecular transitions; efficient use of SOFIA time
- High spectral resolution in the MIR (5x more sensitive EXES)
- This will bring in the more JWST and ALMA users.

Training the next generation of FIR instrumentalists

- The GREAT consortium involves a large number of students in their instrument development and science program. ~10 PhD theses.
- FORCAST development also included graduate students. 5 PhD theses.
- HIRMES: ~15 out of ~40 members are early career.

