

I A C H E C

International Astronomical Consortium for High Energy Calibration



2020 Decadal White Paper



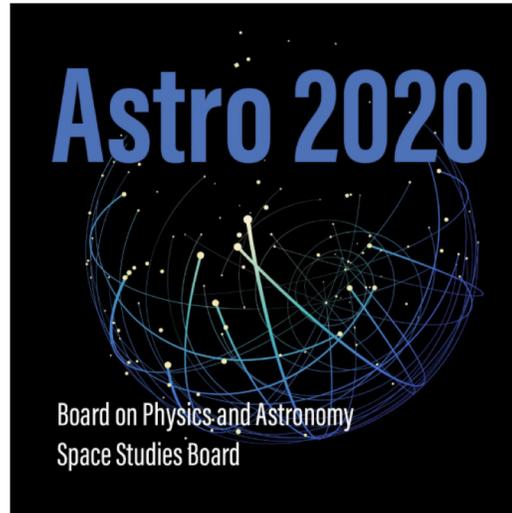
*The National
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DECADAL SURVEY ON ASTRONOMY AND ASTROPHYSICS (ASTRO2020)

Division on Engineering and Physical Sciences

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The Decadal Survey on Astronomy and Astrophysics (Astro2020) is a partnership between the National Academies and the astronomical community to identify key priorities in astronomy and astrophysics and develop a comprehensive strategy for agency investments in the upcoming decade.

The survey, sponsored by NASA, NSF, and DOE, will be driven by input from the scientific community and serve as a guide for scientists, policy makers, and federal agencies. The final report will present a broad vision for transformative science at the frontiers of astronomy and astrophysics.

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NEWS

Astro2020 APC White Paper Deadline is July 10

The Decadal Survey on Astronomy and Astrophysics is issuing a call for Activity, Project, and State of the Profession Consideration (APC) White Papers to inform committee deliberations. Ideas from the community that can be submitted include (but are not limited to) all scales of space- and ground-based science projects, activities such as infrastructure and technological advancements, and issues of consideration for the state of the profession. We will begin accepting submissions in early June, and the final date for acceptance of APC white papers will be July 10, 2019. More instructions will be made available on the study webpage next week. (Posted 5/10/19)



FAQ

1. Since figures take up a lot of space in the white papers, can they be included in the white papers as hyperlinks?

- Yes

2. When are APC white papers due?

- July 10th

3. Can non-US persons submit white papers to the Astro2020 decadal survey?

- Yes

4. If I did not submit an NOI, can I still submit a white paper?

- Yes, submitting an NOI was optional

5. How do I receive updates on the Astro2020 decadal survey?

- Please sign up for Astro2020 Decadal Survey's Newsletter: [Linked here](#)

6. What types of ideas can be submitted for APC whitepapers?

- Ideas from the community that can be submitted include (but are not limited to) all scales of space- and ground-based science projects, activities such as infrastructure and technological advancements, and issues of consideration for the state of the profession.

7. Should current projects that are already part of the program of record submit NOIs and APC white papers?

- No. The NOIs and APC white papers are only for future project that are not part of the program of record.

8. Should the large NASA mission concepts (HabEx, LUVOIR, Lynx, Origins) each submit an NOI and subsequent APC white paper?

- Yes. These white papers in general are intended as synopses of projects and activities that are at a sufficient level that the committee and panels can understand a) the scope of the project, b) the level of existing information, and c) what additional inputs will be required to fully evaluate the project or activity. *For these larger projects of course a 10-page white paper will be insufficient to gain the requisite insight into the complexity and finer details of the missions, but we still believe these white papers will serve as useful guides for organizing requests for further information, and for defining inputs needed for the Technical Risk and Cost Evaluation (TRACE) process, and so we ask that the mission concept teams submit that information.

9. Should WFIRST, Athena, and LISA, submit NOIs and APC white papers?

- No. We recognize that all three of these projects were recommended by New Worlds New Horizons (NWNH), and that they have undergone significant development activities since that time. These are clearly at a very different level of maturity than the new mission concepts that are likely to be considered. Therefore, we do not expect an NOI or project white papers, and none of these three missions will go through a full TRACE process.



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Scope

Importance of calibration and cross-calibration

- Scientific enhancement
- Support and heritage for future observatories

Short comings

- Significant remaining calibration errors
- Limits the achievable science
- Insufficient manpower
- Insufficient funding



Vision

- Improved infrastructure
 - Funding for specialized man-power
 - Funding for collaborations/visiting scientists
 - Funding for meetings
- Centralized Calibration Archive