

Coordinating Panel for Advanced Detectors (CPAD)

APS DPF 2021 Meeting

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APS DPF Coordinating Panel for Advanced Detectors (CPAD)

CPAD Mission and Goals

- The Coordinating Panel for Advanced Detectors (CPAD), seeks to promote, coordinate and assist in the research and development of instrumentation and detectors for high energy physics experiments.
- By helping to coordinate the development of both evolutionary and transformative detector instrumentation across the national laboratories and with the university community, CPAD works to ensure the future of high-energy physics experiments.

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Among Notable Past Achievements

- coordination of the Snowmass 2013 Instrumentation Frontier & its [report](#),
- creation of the DPF instrumentation [awards](#),
- creation of the DOE [Graduate Instrumentation Research Award](#), annual advice to DOE on the SBIR program,
- creation of an annual CPAD workshop & whitepaper “[New Technologies for Discovery](#)” & the first truly interdisciplinary workshop on “Quantum Sensing for High Energy Physics” in 2017 &
- report “[Quantum Sensing for High Energy Physics](#)” articulated the rationale for a QSHEP program and was cited by the House Science and Technology Committee.



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Looking forward

- A lot of new instrumentation ideas in the community that have the potential to transform the physics reach of the next-generation of experiments.
- Important to look outside the boundaries of classic HEP instrumentation and adapt technologies from other fields, such as quantum sensing as well as advanced materials, condensed matter and Artificial Intelligence.
- CPAD will assist the Snowmass process with the organization of interdisciplinary workshops and through its close ties to international bodies such as ICFA and domestic agencies, including DOE and NSF.

CPAD Instrumentation Frontier Workshop 2021

Virtual Event @ Stony Brook University, March 18-22, 2021

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Indico

Committees

Working Groups

Important Dates

Contact

Past CPAD's



CPAD Instrumentation Frontier Workshop 2021 will take place virtually . The workshop will be hosted by the Stony Brook University.

Upcoming CPAD activities

- Workforce survey - stay tuned
- DPF instrumentation award nominations
- CPAD workshop to support Snowmass - TBA
- CPAD website: <https://cpad-dpf.org>

DPF Instrumentation Award Nominations

Nomination Deadline: 30 September, 2021

Award recipients will be invited to present a lecture at the 2022 CPAD meeting. Complete nominations have:

- A nominating letter of not more than 5,000 characters, about two pages.
- A biographical sketch or CV.
- At least two, but not more than three, seconding letters.

Nominations for the 2021 award will be accepted through Academic Jobs Online (AJO) from now through September 30, 2021.

Nominations will remain active for three years. The nominating letter and the CV should be uploaded to <https://academicjobsonline.org/ajo/jobs/18758>