

**Board on Physics and Astronomy
2022 Fall Meeting
November 29 – 30, 2022
Hybrid Meeting
Arnold and Mabel Beckman Center
100 Academy Way, Irvine, California 92617
ALL TIMES IN US PACIFIC DAYLIGHT TIME (UTC-7:00)**

AGENDA

TUESDAY, NOVEMBER 29, 2022

OPEN SESSION

Livestream Link: <https://vimeo.com/event/2574931>

10:00 AM	Welcome and Introductions	<i>Dr. Andrew Lankford, BPA Chair</i>
10:05 AM	Dept. of Energy Office of Science and the CHIPS + Science Act and the Inflation Reduction Act (30 minute presentation & 30 minute discussion period)	<i>Dr. Asmeret Asefaw Berhe, Director, Office of Science, DOE</i>
11:00 AM	Short Break (10 minute break period)	
11:10 AM	National Science Board and the CHIPS and Science Bill (30 minute presentation & 30 minute discussion period)	<i>Dr. Daniel Reed, Chair, National Science Board</i>
12:10 PM	CHIPS and Science Bill: A Perspective from University Stakeholders	<i>Mr. Tobin Smith, Senior Vice President Science Policy and Global Affairs, AAU</i> <i>Dr. Julia Jester, Associate Vice President for Federal Relations, AAU</i>
1:10 PM	Lunch Break (60 minute period)	

2:10 PM **Panel 1: Quantum Computing and Quantum Information Systems and Physics Applications**
(17-minute presentation each and 30-minute discussion)

Panelists: *Dr. Christian Bauer, Head of Theory Group, Lawrence Berkeley National Laboratory*
Dr. Andrew Cleland, Professor, Molecular Engineering, University of Chicago
Dr. Mikhail Lukin, Professor, Physics, Harvard University

3:30 PM **Update on National Science Foundation (NSF) - Progress on** *Dr. Debra Fischer, Division Director,*
NSF **NSF actions in response to the Astro2020 Decadal Survey** *Division of Astronomy,*

(25 minute presentation & 20 minute discussion period)

4:15 PM **Update on Snowmass and P5** **Dr. Joel Butler, Distinguished Scientist, Fermilab**
(30 minute presentation, 20 minutes discussion period)

5:05 PM *Public Meeting Adjourns. Executive Session for members only.*

WEDNESDAY, NOVEMBER 30, 2022

OPEN SESSION

Livestream Link: <https://vimeo.com/event/2575044>

10:00 AM **Recap of Day 1 and Review of Day 2 Agenda** *Dr. Andrew Lankford, BPA Chair*

10:00 AM **Update from Dept. of Energy (DOE) Office of High Energy Physics** *Dr. Regina Rameika, Associate Director,*
Office of High Energy Physics, Office of Science, DOE

(25 minute presentation & 20 minute discussion period)

10:45 AM *Short Break*
(10 minute break period)

10:55 AM **Discussion of Recent Science from James Webb Space** *Dr. Mercedes Lopez-Morales, Chair,*
Telescope *JWST Users Committee*

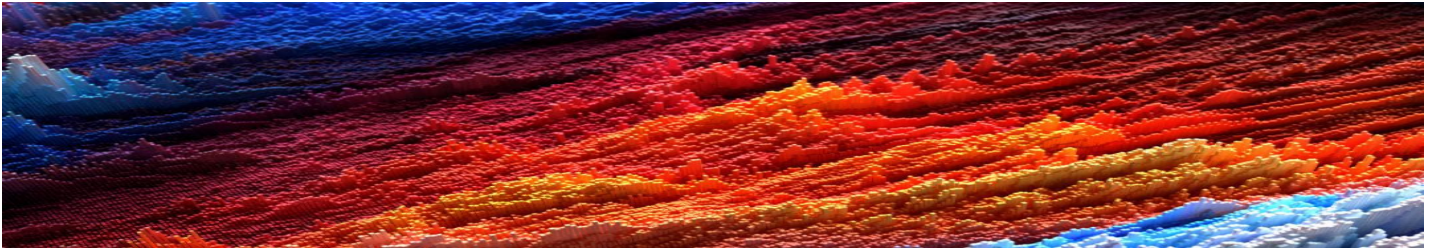
(25 minute presentation & 25 minute discussion period)

11:45 PM *Lunch Break*
(60 minute break period)

12:45 PM **Update on the Status of LIGO** *Dr. David Reitze, Member, BPA*

(35 minute presentation & 25 minute discussion period)

1:45 PM *Short Break*
(15 minute break period)



2:00 PM

Update on the Deep Underground Neutrino Experiment

Dr. Sergio Bertolucci, Professor, U. of Bologna

(45 minute presentation, including a short summary of the LBNF project & 20 minute discussion period)

3:05 PM

Meeting Adjourns to Executive Session

The following information is provided for any members of the general public who may be in attendance:

This meeting is being held to gather information to help the committee in its charge. This committee will examine the information and material obtained during this, and other public meetings, in an effort to inform its work. Although opinions may be stated and lively discussion may ensue, no conclusions are being drawn nor will recommendations be made. Observers who draw conclusions about the committee's work based on this meeting's discussions will be doing so prematurely.

Furthermore, individual committee members often engage in discussion and questioning for the specific purpose of probing an issue and sharpening an argument. The comments of any given committee member may not necessarily reflect the position he or she may actually hold on the subject under discussion, to say nothing of that person's future position as it may evolve in the course of the project. Any inference about an individual's position are therefore also premature.

NOTES FOR PRESENTERS

Your presentation may not include unpublished data, ITAR controlled and/or other sensitive information.

At some point a staff member will be asking you to sign a consent form allowing us to use your presentation, specifically to post it on our website.