Board on Physics and Astronomy
2023 Spring Meeting
April 26-27, 2022
Hybrid Meeting
Keck Center, Room 201
500 5th Street NW, Washington, D.C. 20001
ALL TIMES EASTERN DAYLIGHT TIME (UTC-7:00)

WEDNESDAY, APRIL 26, 2023

OPEN SESSION

Livestream Link: **https://vimeo.com/event/3312119**

9:00 AM	**Welcome and Introductions**	***Dr. Andrew Lankford, BPA Chair***
9:05 AM	**Department of Energy Office of Science Update and Opening Remarks** (5-minute taped presentation)	***Dr. Asmeret Asefaw Berhe, Director, Office of Science, DOE,***
9:10 AM	**Roundtable Discussion with Office of Science Leadership: Fusion Energy, Nuclear Physics, Basic Energy, High Energy Physics, and Advanced Computing Research Sciences** (50-minute presentation & 60-minute discussion period) ***Participants:*** ***Dr. Harriet Kung, Deputy Director for Science Programs, Office of Science*** ***Dr. Linda Horton, Associate Director, Office of Basic Energy Sciences*** ***Dr. John Mandrekas, Director, Research Division, Office of Fusion Energy Sciences*** ***Dr. Glen Crawford, Director, Research & Technology Division, Office of High Energy Physics*** ***Dr. Sharon Stephenson, Program Manager, Nuclear Physics*** ***Dr. Ceren Susut, Acting Associate Director, Office of Advanced Scientific Computing Research***	
11:05 AM	*Meeting Adjourns to Executive Session*	
1:00 PM	*Committee Transition to Open Session*	

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1:05 PM **NSF Update & Division of Physics Update and Reflections**
(40-minute presentation & 20-minute discussion period)
Dr. Sean Jones, Asst. Director Directorate of Mathematical and Physical Sciences, NSF / Dr. C. Denise Caldwell, Division Director Division of Physics, NSF

2:05 PM **The DOE-NASA LuSEE-Night program**
(40-minute presentation & 20-minute discussion period)
Dr. Stuart D. Bale, NASA Project PI, UC Berkeley / Dr. Anže Slosar, DOE Project Lead/Lead Scientist, Brookhaven National Lab

3:05 PM *Break*
(25-minute break)

3:30 PM **Update on Vera C. Rubin Observatory and Legacy Survey of Space and Time (LSST)**
(40-minute presentations & 20-minute discussion period)
Participants: ***Dr. Victor Krabbendam, Program Manager, Vera C. Rubin Observatory***
Dr. Leanne Guy, Data Management Scientist, LSST
Dr. J. Anthony Tyson, Chief Scientist, Vera C. Rubin Observatory

4:30 PM **Achieving Fusion Ignition on the National Ignition Facility**
(40-minute presentation & 20-minute discussion period)
Dr. Mark Herrmann, Program Director for Weapon Physics and Design, Lawrence Livermore National Laboratory

5:30 PM *Meeting Adjourns to Executive Session*

THURSDAY, APRIL 27, 2023 – EXECUTIVE SESSION ONLY

Committee Meets Entirely in Executive Session Only

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.

A staff member will ask you to sign a consent form allowing us to post it on our website.

STATEMENT OF TASK

Date Organized: January 1, 1983

The important questions in physics and astronomy change as we learn more about nature, and the rate of change has been increasing. The Board on Physics and Astronomy (BPA) seeks to inform the government and the public regarding important scientific opportunities and issues as well as the changing nature of science. The BPA builds bridges between the evolving subdisciplines of physics and astronomy and between these and other areas of science. The BPA is successful if it helps both the science community and society understand what is needed to continue the advance of physics and astronomy and why doing so is important.

BPA Overall Objectives

1. Every activity of the BPA is aimed at accomplishing one or more of seven goals:
2. Monitor the health of physics and astronomy.
3. Identify trends in research and new developments at the scientific forefronts.
4. Foster interactions with other fields and cooperation among academic disciplines.
5. Strengthen connections to technology.
6. Facilitate effective service to the nation.
7. Improve public understanding of science.
8. Encourage cooperation among federal agencies, government laboratories, and universities involved in research in physics and astronomy.