The Second Annual Black Hole Initiative Annual Conference

Scientific Program

Second Annual BHI Conference on Black Holes

Wednesday, May 9 – Friday, May 11 2018
Sheraton Commander Hotel, 16 Garden Street, Cambridge, MA

Hosted by the Black Hole Initiative, Harvard University
http://bhi.fas.harvard.edu/

All talks are 25 minutes (20+5)
Sessions held in the George Washington Ballroom
Coffee Breaks held in the adjacent Terrace Room

This conference was made possible by a generous grant from the John Templeton Foundation
Wednesday May 9, 2:00PM-5:00PM

2:00-2:05PM
**Avi Loeb**: Welcome

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<td>Session Chair: Shep Doeleman</td>
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2:05-3:30PM
**Aaron Wall**: *Black Holes and the Second Law*
**Pablo Laguna**
**Feraz Azhar**: *Quantifying fine-tuning in the early universe: Primordial Black Holes and Habitable Halos*

3:30-3:45PM **Coffee Break**

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<td>Session Chair: Andrea Puhm</td>
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3:45-5:00PM
**Malcolm Perry**
**Alessandra Buonanno**
**Lydia Bieri**: *Gravitational Wave Memory*

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**Cocktails and Banquet**

6:30-10:00PM

*“The Information Paradox”*

A film produced by Peter Galison for the BHI

**Keynote Talk by**

**Rainer Weiss**, Professor Emeritus MIT and Nobel Prize Laureate

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Thursday May 10, 9:00AM-5:00PM

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<td>Session Chair: Ramesh Narayan</td>
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9:00-10:30AM
**Laura Brenneman**
**Shiraz Minwalla**
**Juan Maldacena**: *Black Holes, Entanglement, Wormholes and Teleportation*
11:00-11:15AM **Coffee Break**

**Session 4**
Session Chair: Erik Curiel

11:15AM-12:45PM
**Andreas Eckart:** *Evidences for the presence of a SMBH at the Center of the Milky Way*
**Charles Gammie**
**Jenny Greene**

12:45-2:00PM **Lunch Break**

**Black Holes: Interdisciplinary Exchange**
2:15-3:15PM
**Ramesh Narayan**

3:15-3:30PM **Coffee Break**

**Session 5**
Session Chair: Paul Chesler

3:30-5:00PM
**Alex Lupsasca**
**Silke Weinfurtner**
**Gary Horowitz**

Friday May 11, 9:00AM- 5:00PM

**Session 6**
Session Chair: Laura Donnay

9:00-10:30AM
**Piotr Chrusciel:** *Black Holes with a negative Cosmological Constant*
**Mu-Tao Wang**
**Daniel Harlow**
10:30-10:45 Coffee Break

BHI Goals and Progress PLUS the Announcement of the first BHI Prize for Best Interdisciplinary Paper
10:45-11:45AM
Avi Loeb, Shep Doeleman, Andy Strominger, Peter Galison, Ramesh Narayan, Denis Gray

11:45AM-2:00PM Lunch Break

Session 7
Session Chair: Peter Galison

2:00-3:30PM
Carl Hoefer: Foundational questions in Black Hole Physics: A difficult meeting ground for philosophers and physicists
Douglas Stanford
Hsin-Yu Chen

Session 8
Session Chair: Michael Johnson

3:30-4:45PM
Jean Eisenstaedt
Avery Broderick
Nima Arkani-Hamed

Final Comments from Avi Loeb
4:45-4:50PM

Thank you for joining us!