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University of California, Santa Cruz  
Sesonon Gallery at Porter College  
1156 High Street  
West Campus Entrance  
Santa Cruz, CA 95064

# BLACK (W)HOLE.

October 5 - November 23, 2016

Non Profit Organization  
U.S. Postage  
PAID  
Santa Cruz, CA  
Permit No.32

MARY PORTER  
**SESONON**  
ART GALLERY

**New** Gallery Hours  
Tuesday – Saturday  
12 – 5 PM  
Wednesday 12 – 8 PM  
831.459.3606  
[arts.ucsc.edu/sesonon](http://arts.ucsc.edu/sesonon)

The gallery is wheelchair accessible and admission is free. Metered parking available. Group tours are available by appointment at [sesnon@ucsc.edu](mailto:sesnon@ucsc.edu).

**RECEPTION:** Wednesday, October 5, 5:00–7:00 pm (Sesonon Gallery)

**RELATED EVENTS:** Tuesday, October 4, 7:00 pm LASER talk about the Black (W)hole sponsored by the Institute of Arts and Sciences at the Digital Arts Resource Center (DARC) 108.

Leonardo Art/Science Evening Rendezvous (LASER) is a national program of evening gatherings that bring artists, scientists, and scholars together. <http://ias.ucsc.edu/>



The Einstein Collective would like to thank the following sponsors: Montana Space Grant Consortium, Montana State University, Center for Gravitational Wave Astronomy at the at the University of Texas, Brownsville, National Aeronautics and Space Administration (NASA), and the National Science Foundation. • This exhibition was sponsored by the University of California Santa Cruz, Department of Astronomy and Astrophysics, Arts Division, Porter College, Institute of the Arts and Sciences, and the Barbara Walker Memorial Fund.

**BLACK (W)HOLE** is an immersive exhibition experience designed by The Einstein Collective, combining the arts, data visualization and sonification, and astrophysics.

The Einstein Collective is a group of artists, scientists and educators from several universities.\* Members of The Einstein Collective include: Sara Mast (MSU), lead visual artist ; Jessica Jellison, architect; Christopher O'Leary (UCLA), animator and visual artist; Cindy Stillwell (MSU), filmmaker; Jason Bolte (MSU), composer/sound artist; Charles Kankelborg (MSU), solar physicist; Nico Yunes (MSU), astrophysicist; Joey Shapiro Key (UTB), astrophysicist.

A special workshop for UCSC students on ArtScience collaboration will be offered by artist Sara Mast and astrophysicists Joey Shapiro Key and UCSC Professor Enrico Ramirez during the exhibition.

The Black (W)hole project uses data visualization of an extreme mass ratio inspiral (EMRI) with

the aural data of gravitational wave frequencies in an experiential work of ArtScience. Entering the installation, viewers step into a darkened gallery where a laser star field projects onto their skin. The visitor becomes immersed in a field of stars surrounded by the Einstein equations that were written roughly one hundred years ago and predicted the existence of black holes. This work engages mind and body in both historical and current gravitational wave astronomy, encompassing our current, 21st century level of understanding of the universe and expanding the viewer's capacity to imagine and wonder.

\*Universities and Centers include: Montana State University (MSU), Center for Gravitational Wave Astronomy at the University of Texas, Brownsville (UTB), University of California Los Angeles (UCLA).



**imagination**

**is more important than knowledge.** ALBERT EINSTEIN