



INTO THE VOID

EHT PANELISTS



FRANCE CÓRDOVA is 14th director of the National Science Foundation. Córdoba leads the only government agency charged with advancing all fields of scientific discovery, technological innovation, and STEM education. Córdoba has a distinguished resume, including: chair of the Smithsonian Institution's Board of Regents; president emerita of Purdue University; chancellor of the University of California, Riverside; vice chancellor for research at the University of California, Santa Barbara; NASA's chief scientist; head of the astronomy and astrophysics department at Penn State; and deputy group leader at Los Alamos National Laboratory. She received her B.A. from Stanford University and her Ph.D. in physics from the California Institute of Technology.



SHEPERD DOELEMEN is an Astrophysicist with the Center for Astrophysics | Harvard & Smithsonian and the Project Director of the Event Horizon Telescope (EHT). He is also a Harvard Senior Research Fellow and a Project Co-Leader of Harvard's Black Hole Initiative (BHI). His research interests focus on problems in astrophysics that require ultra-high resolving power and his work employs the technique of Very Long Baseline Interferometry (VLBI), synchronizing geographically distant radio dishes into an Earth-sized virtual telescope. His research has included work at the McMurdo Station on the Ross Ice Shelf in Antarctica and he has served as Assistant Director of the MIT Haystack Observatory. Doeleman is a Guggenheim Fellow and was the recipient of the DAAD German Academic Exchange grant for research at the Max Planck Institute für Radioastronomie. He leads and co-leads research programs

supported by grants from the National Science Foundation, the National Radio Astronomy Observatory (NRAO) ALMA-NA Development Fund, the Smithsonian Astrophysical Observatory, the MIT International Science & Technology Initiatives (MISTI), the Gordon and Betty Moore Foundation, and the John Templeton Foundation. Doeleman received his B.A. from Reed College and completed a Ph.D. in astrophysics at MIT.



DAN MARRONE is an EHT co-investigator and Science Council member and an associate professor of Astronomy at the University of Arizona. He is also Principal Investigator of the EHT receiving system for the South Pole Telescope and on the project's data analysis team. Dan is interested galactic and extragalactic astronomy, including galaxy clusters and their cosmological applications, the supermassive black hole at the center of our galaxy, the process of star formation, and star forming galaxies in the early universe. His work includes the development of new instrumentation for telescopes around the world to assist in these studies. He spends each January expanding and testing the digital detector at the South Pole Telescope. He has made 5 trips to the South Pole to install and upgrade the EHT system there and manages the EHT observing systems for the two Arizona telescopes, the Submillimeter Telescope on Mt. Graham and the 12-meter telescope at Kitt Peak National Observatory.



AVERY BRODERICK (PhD California Institute of Technology, 2004) began a joint appointment with Perimeter and the University of Waterloo in 2011, and was named the Delaney Family John Archibald Wheeler Chair in Theoretical Physics in 2017. He previously held postdoctoral positions at the Institute for Theory and Computation at the Harvard-Smithsonian Center for Astrophysics (2004-07) and the Canadian Institute for Theoretical Astrophysics (2007-11). Broderick is an astrophysicist with broad research interests, ranging from how stars form to the extreme physics in the vicinity of white dwarfs, neutron stars, and black holes. He is a key member of the Event Horizon Telescope collaboration, an international effort to produce and interpret horizon-resolving images of supermassive black holes, studying how black holes accrete matter, launch the ultra-relativistic outflows observed, and probe the nature of gravity in their vicinity.



SERA MARKOFF is a member of the EHT Science Council, and co-coordinates the EHT Multiwavelength and Proposal Working Groups. Originally from the US, she is now professor of Theoretical Astrophysics at the University of Amsterdam, where she leads a group working at the interface of astrophysics and astroparticle physics. She is interested in the extreme physical processes around compact objects like black holes, especially the connection between stellar-mass and supermassive black holes, and the effect such black holes have on their environments. These effects are important for understanding the evolution of galaxies as well as star formation in our own Milky Way. She is also interested in explosive transient events on the sky, powered by black holes. Along with members of her group, Sera contributed to the theoretical modeling efforts of the EHT data, and helped acquire complementary observations from ground and space-based facilities at other wavelengths, that are important for constraining such models. She has a personal affection for the supermassive black hole in our Galaxy, Sgr A*, the only other event-horizon scale EHT target and upcoming result, which she has been studying since graduate school. Internationally, Sera is also involved in the next generation very- high-energy gamma-ray telescope, the Cherenkov Telescope Array, has won numerous awards, and was named Fellow of the American Physical Society in 2014.