

TASI 2021

Black Holes, Quantum Information and Dualities

University of Colorado Boulder | June 7–July 2, 2021

ORGANIZERS: THOMAS FAULKNER (UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN), VERONIKA HUBENY (UNIVERSITY OF CALIFORNIA, DAVIS)

Lectures and topics

AHMED ALMHEIRI (IAS) | Black Hole Information Paradox

HORACIO CASINI (BARILOCHE) | Entanglement in QFT

HENRIETTE ELVANG (MICHIGAN) | Scattering Amplitudes

NETTA ENGELHARDT (MIT) | Quantum Information in AdS/CFT

PATRICK HAYDEN (STANFORD) | Introduction to Quantum Information

ALEX MALONEY (McGILL) | CFT2 and AdS3

NATALIE PAQUETTE (IAS) | Mathematics of String Dualities

ERIC PERLMUTTER (IPhT SACLAY) | Bootstrap for AdS/CFT

MUKUND RANGAMANI (UC DAVIS) | Introduction to AdS/CFT

MONIKA SCHLEIER-SMITH (STANFORD) | Quantum Gravity in the Lab

ASHOKE SEN (HARISH-CHANDRA RESEARCH INSTITUTE) | String Theory and Black Holes

DAM SON (CHICAGO) | Dualities in Many-Body Physics

DOUGLAS STANFORD (STANFORD) | Dualities for Low-Dimensional Gravity

BRIAN SWINGLE (BRANDEIS) | Entanglement Dynamics

IRENE VALENZUELA (HARVARD) | The String Landscape and the Swampland

MICHAEL WALTER (AMSTERDAM) | Tensor Networks, QI and AdS/CFT

HELVI WITEK (UIUC) | Gravitational Waves

Applications and information are available at
colorado.edu/physics/TASI or email TASI@colorado.edu.

**Deadline for online application
submissions: March 1, 2021**

Supported by the University of Colorado Boulder and
the National Science Foundation.



University of Colorado **Boulder**