



# JOHN BAHCALL COLLOQUIUM THE INSTITUTE AT SURF

APRIL-JUNE 2026 | 9 A.M. MT • VIRTUAL

A monthly lecture series bringing together researchers from diverse disciplines in underground science and related fields to share new results, exchange ideas, and foster collaboration.

8  
APR

## CASPAR: ASTROPHYSICS DEEP UNDERGROUND

Speaker: Dr. Frank Strieder,  
South Dakota Mines

This talk will discuss the Compact Accelerator System for Performing Astrophysical Research (CASPAR), located at the Sanford Underground Research Facility (SURF), highlighting key results, its 2026 restart, and how underground experiments advance our understanding of the first stars and explosive astrophysical events.

13  
MAY

## ADVANCING DUNE: INFRASTRUCTURE, MILESTONES, & WHAT'S AHEAD

Speaker: Dr. Sunni Seo, Fermilab

This talk will discuss the Deep Underground Neutrino Experiment (DUNE), a next-generation long-baseline neutrino experiment and underground observatory at SURF. It will highlight its scientific goals, detector progress, and how it will resolve neutrino mass ordering, probe CP violation, and explore physics beyond the Standard Model.

10  
JUN

## QUANTUM FRONTIERS IN PARTICLE PHYSICS

Speaker: Dr. K.C. Kong,  
University of Kansas

This talk will explore quantum computing and its transformative potential in particle physics, highlighting applications such as quantum optimization at the LHC and qubit-based sensors for dark matter detection, along with the broader potential to tackle problems that are intractable for classical computers.

Explore upcoming talks, speakers, and past recordings at: [institute.surf/JBC](https://institute.surf/JBC)



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