

# DEEPER TALKS

SURF SEMINAR SERIES

Monthly science talks providing a platform for researchers to discuss their work, share insights, and foster interdisciplinary connections

Hosted by



THE INSTITUTE  
FOR UNDERGROUND SCIENCE  
AT SURF



**SPEAKER:**

**DR. JAMES BOWEN**

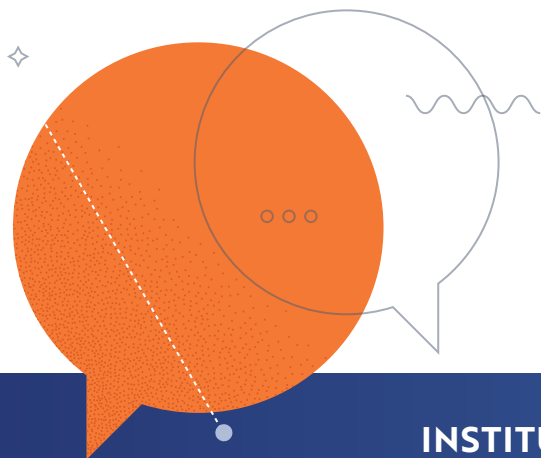
UNIVERSITY OF KANSAS



**UPCOMING TALK**  
**DEC 10, 2025 • 9AM MT**  
**VIRTUAL**

## HIGH ENERGY NUCLEAR PHYSICS

This talk explores how data from the Compact Muon Solenoid Experiment at the Large Hadron Collider was used to study dijets from photon-nuclear collisions. Dijet measurements help probe the distribution and behavior of gluons within nuclei—key to understanding the quark-gluon plasma and other quantum phenomena. By examining azimuthal correlations in dijet momentum, researchers observed a positive correlation, offering fresh insight into gluon structure and supporting recent theoretical predictions.



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