



# BREAKTHROUGH PRIZE | FUNDAMENTAL PHYSICS

THE 2025 BREAKTHROUGH PRIZE IN FUNDAMENTAL PHYSICS IS AWARDED TO

## Aodhan Tomas Burke

AND COLLEAGUES IN THE LHCb COLLABORATION AT THE LARGE HADRON COLLIDER AT CERN

For detailed measurements of Higgs boson properties confirming the symmetry-breaking mechanism of mass generation, the discovery of new strongly interacting particles, the study of rare processes and matter-antimatter asymmetry, and the exploration of nature at the shortest distances and most extreme conditions at CERN's Large Hadron Collider.

APRIL 5, 2025

Pete  
Worden  
Chairman  
Breakthrough Prize Foundation