

Unveiling New Frontiers in Particle Physics: Exploring Beyond the Standard Model at the LHC

Monday, 25 September 2023 11:30 (25 minutes)

Discover the remarkable world of the Large Hadron Collider (LHC) and its experiments as we journey into the heart of particle physics. Designed for non-experts in particle physics, this talk showcases the LHC's achievements and sets the stage for the motivation behind Beyond the Standard Model (BSM) physics.

We'll dive into the mysteries of the Standard Model, highlighting the fascinating deviations that inspire BSM investigations. Through compelling examples, we'll shed light on the hunt for hidden particles and forces, including dark matter candidates.

The journey concludes with the High-Luminosity LHC (HL-LHC) horizon, where even greater discoveries await. Join us in unraveling the universe's fundamental fabric and igniting the spirit of scientific exploration.

Abstract Category

Particle Physics

Primary author: REJEB SFAR, Haifa (The State University of New York SUNY (US))

Presenter: REJEB SFAR, Haifa (The State University of New York SUNY (US))

Session Classification: Nuclear and Particle Physics

Track Classification: Physics Research