Consiglio Nazionale delle Ricerche | IPCF

DIPARTIMENTO DI SCIENZE MATEMATICHE E INFORMATICHE, SCIENZE FISICHE E SCIENZE DELLA TERRA
Dottorato di Ricerca in Fisica

Appunti di Fisica '25

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Aula Leonardo, Blocco A, piano terra, Dipartimento MIFT

Very-very-very high-energy spectroscopy: studying strong interactions with a light beam

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Over the last two decades we have witnessed the discovery of a myriad of new and unexpected hadrons, challenging the old lore that hadrons were either mesons or baryons consisting of 2- or 3-quarks. The future holds more surprises for us, thanks to new-generation experiments, which will provide access to more exotic channels and data than ever before.

Understanding the signals and determining the properties of exotic states requires experimentalists and theoreticians to work in tandem. In this talk, I will discuss how producing hadrons with photon and electron beams gives us invaluable information about their internal structure.