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Overview of BESIII results

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Since its operation began in 2008, the BESIII experiment has accumulated an integrated luminosity of 50 fb^{-1} in the center-of-mass energy range of 1.84-4.95 GeV. Using these data samples, BESIII has achieved a large number of significant results in areas such as light hadron spectroscopy, charmonium physics, hyperon physics, and the physics of charmed mesons and charmed baryons, providing crucial experimental support for testing theories of the strong and electroweak interactions. By the end of 2024, the upgrade of BEPCII was completed. The BEPCII-U will achieve a luminosity three times higher than before at energies above 4.0 GeV, with the maximum center-of-mass collision energy reaching 5.6 GeV. This upgrade enables the study of charmed baryon pair productions and decays, the search for XYZ particles, investigations into charm quark fragmentation functions, and related research. This talk will present the latest experimental results from the BESIII experiment and provide an outlook for its future.

Collaboration

BESIII

Primary author: GRADL, Wolfgang (Johannes Gutenberg University Mainz)**Co-author:** HAI-BO, Li (Institute of High Energy Physics, Chinese Academy of Sciences)**Presenter:** GRADL, Wolfgang (Johannes Gutenberg University Mainz)**Session Classification:** Plenary session**Track Classification:** Heavy Flavour (production, spectroscopy)