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Charmonium opportunities at Belle II

Content

The Belle II experiment has successfully started its data taking in 2018. By 2026 it is expected to collect 50 inverse ab integrated luminosity; this data set will allow important confirmations and detailed studies of previously discovered states, and search for new resonances. The data collected by Belle II with the first 10/fb delivered luminosity have been used for feasibility studies, for example on the X(3827) and the D/Ds meson reconstruction. The measurement of the X(3872) width, the search for new charged charmonium-like states and the investigation of the Zb family are part of the ambitious hadron program of the Belle II experiment. We present here preliminary studies realized with our first data set, and summarize the highlights of our program in hadron spectroscopy.

Summary

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