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01 SPECTROSCOPY

Charmonium spectroscopy and decay at CLEO-c

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摘要

We report recent results on charmonium spectroscopy and decay from the CLEO-c experiment at the Cornell electron-positron storage ring accelerator, CESR. Most of the results are based on the analysis of 54 pb^{-1} of luminosity collected at the ψ(2S) resonance, corresponding to 27 M ψ(2S) decays. We concentrate on radiative decays of ψ(2S) and J/ψ, on two-body mesonic decay of χ_{cJ}, on hadronic decay of the h_c, and on higher multipoles in the two-photon cascade $\psi(2S)\to\gamma\chi_{cJ}$, $\chi_{cJ}\to\gamma J/\psi$.

关键词 charmonium, radiative decay, two-body decay, photon transitions, higher multipoles

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