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Charmonium results from BESIII

We present the recent results on charmonium spectroscopy and charmonium decays based on a data sample of 106M ψ' recorded with the BESIII detector at BEPCII. The report includes:

- 1, The first measurement of the transition rates of $\psi' \rightarrow \pi^0 h_c$, $h_c \rightarrow \gamma \eta_c$, and improved measurements of the mass and width of the h_c ;
- 2, Study of $\chi_{cJ} \rightarrow VV$, with VV being $\phi\phi$, $\omega\omega$, and $\omega\phi$, $\chi_{cJ} \rightarrow \omega\phi$ as well as $\chi_{c1} \rightarrow \omega\omega$ and $\phi\phi$ are first observations;
- 3, Improved measurements of the branching fractions of χ_{cJ} decays into two neutral pseudoscalar meson pairs, including $\chi_{c0,2} \rightarrow \pi^0\pi^0$ and $\chi_{c0,2} \rightarrow \eta\eta$.

Autore principale: ZHANG, Jingzhi (IHEP)

Relatore: ZHANG, Jingzhi (IHEP)