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Search for invisible decays at BESIII

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BESIII has collected 2.5 billion $\psi(2S)$ events and 10 billion J/ψ events. The huge data sample provide an excellent chance to search for new physics. We report the search for the decay $J/\psi \rightarrow \gamma + \text{invisible}$, which is predicted by next-to-minimal supersymmetric model. We also report the first search for the invisible decay of Λ , which is predicted by the mirror matter model and could explain the 4σ discrepancy in neutron lifetime measurement between beam method and bottle method. A light Higgs A^0 is also searched in radiative decay of J/ψ

In-person participation

No

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