

## Search for invisible decays at BESIII

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BESIII has collected data sets of 448.2 M  $\psi(3686)$  events and 10 B  $J/\psi$  events. The huge clean data samples provide an excellent opportunity to search for new physics. We report the search for decay  $J/\psi \rightarrow \gamma + \text{invisible}$ , which is predicted by next-to-minimal supersymmetric model. Without significant signal found, we gave around 6.2 times better UL than previous CLEO-c' s results. In addition, we report the preliminary result of the first search for the invisible decay of  $\Lambda$ . This invisible decay is predicted by mirror matter model which could explain the  $4\sigma$  discrepancy in neutron lifetime measurement results between the beam method and the bottle method.

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Particle physics

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