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Study on the Baryon State X Produced in the Process $J/\psi \to \to \bar{p}+X, X \to p+P$

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Abstract: The decay process $J/\psi \to \bar{p}+X$, $X \to p+P$, where $p, \bar{p}$ and P are the proton, antiproton and pseudoscalar states, respectively, has been studied in terms of the angular distribution and the generalized moment analysis methods. The result shows that we can identify the spin, but cannot determine the parity of the baryon resonance state X produced in the process $J/\psi \to \bar{p}+X$, $X \to p+P$.

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Key words: decay, angular distribution, moment analysis, hybrid baryon