## 2005 Vol. 44 No. 6 pp. 1050-1054 DOI:

Angular Distributions for  $\psi'$  Sequential Decays into  $2(\pi^+\pi^-)p\overline{p}\gamma$  via  $\chi_{c,l}$ 

PING Rong-Gang<sup>1,2</sup> and YUAN Chang-Zheng<sup>1,2</sup>

<sup>1</sup> CCAST (World Lab.), P.O. Box 8730, Beijing 100080, China

 $^2$  Institute of High Energy Physics, the Chinese Academy of Sciences, P.O. Box 918(1), Beijing 100049, China

(Received: 2005-4-13; Revised: )

Abstract: Amplitudes for  $\psi(2S)$  sequential decays into  $2(\pi^+\pi^-)p\overline{p}\gamma$  via  $\chi_{CJ}$  are constructed in effective coupling scheme. A Mote-Carlo simulation is carried out to study angular distributions of the decayed particles in laboratory system. The results can be taken as a reference for measuring the decay of  $\chi_{CJ}$  into  $\Xi^-\overline{\Xi}^+$  at BESII/BEPC in the near future.

PACS: 13.25.Ft, 24.10.Lx, 11.80.Cr

Key words: charmonium decays, Monte-Carlo simulation, invariant amplitudes

[Full text: PDF]

Close