

Wavefunctions for Particles with Arbitrary Spin

HUANG Shi-Zhong,^{1,2} RUAN Tu-Nan,^{1,2} WU Ning^{1,3} and ZHENG Zhi-Peng^{1,3}

¹ CCAST (World Laboratory), P.O. Box 8730, Beijing 100080, China

² Department of Modern Physics, University of Science and Technology of China, Hefei 230027, China

³ Institute of High Energy Physics, The Chinese Academy of Sciences, P.O. Box 918, Beijing 100039, China

(Received: 2001-1-20; Revised: 2001-4-4)

Abstract: By solving rigorously the relativistic wave equations derived from Bargmann-Wigner equation for arbitrary spin, the relativistic wavefunctions in momentum representation for particles with arbitrary spin are deduced.

PACS: 11.80.Cr, 11.15.Tk, 03.70.+k

Key words: Bargmann-Wigner equation, particles with arbitrary spin, relativistic wavefunctions, rigorous derivation

[\[Full text: PDF\]](#)

Close