## 2003 Vol. 40 No. 3 pp. 283-284 DOI:

Exact Solution to the One-Dimensional Dirac Equation with Time Varying Mass YANG Jin, XIANG An-Ping, and YU Wan-Lun

Department of Optics and Electronics, Chengdu University of Information Technology, Chengdu 610041, China

(Received: 2002-12-16; Revised: )

Abstract: We directly use the quantum-invariant operator method to obtain the closed-form solution to the one-dimensional Dirac equation with a time-changing mass with a little manipulation. The solution got is also applicable for the case with time-independence mass.

PACS: 03.65.Fd

Key words: invariant operator method, time-dependent Dirac equation, solution

[Full text: PDF]

Close