Phys 652 Winter 2024

Worksheet # 8

Friday, February 9, 2024

Name

Question (5 pts):

Using the relation $e^{-i(\varphi/2)\boldsymbol{\sigma}\cdot\mathbf{n}} = I\cos\frac{\varphi}{2} - i\boldsymbol{\sigma}\cdot\mathbf{n}\sin\frac{\varphi}{2}$, find $e^{-i(\beta/2)\sigma_y}$.