Physics 651 Fall 2023

Worksheet #4

(Wednesday, October 4, 2023)

Name

Questions (5 pts):

Consider operators A, B, and C as well as a complex number α and the bra $\langle \psi |$. What kind of an object (bra, ket or operator) is the following:

- (a) $\langle \psi | AB\alpha$
- (b) $|\psi\rangle\langle\varphi|$

Find the Hermitian conjugate of these objects.