野力学 第7回 議題 8023036 率しま はパート 課題

A. Bをエルミート演算子でしたとき、A+iB、A-iBは、 互いにエルミート共役を演算子であるを示せ、

(A-iB)+ - A-iB か成りかってとをすり

(Â+iB) + = A+ - iB+

= <m/ a+ |n> - i < m | ôt |n>

 $= \langle \hat{A}m|n \rangle - i \langle \hat{b}m|n \rangle$ $= \langle m \cdot |\hat{A}|n \rangle - i \langle m \cdot |\hat{b}|n \rangle$ $= \hat{A} - i \hat{b}$

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