

Chem. 540
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PROBLEM FORMALISM 1

For a particle in three dimensions, calculate the commutators $[\hat{x}^2, \hat{p}_x]$, $[\hat{x}, \hat{p}_x^2]$, $[\hat{x}^2, \hat{p}_y]$, and $[\hat{x}\hat{z}, \hat{p}_x]$.