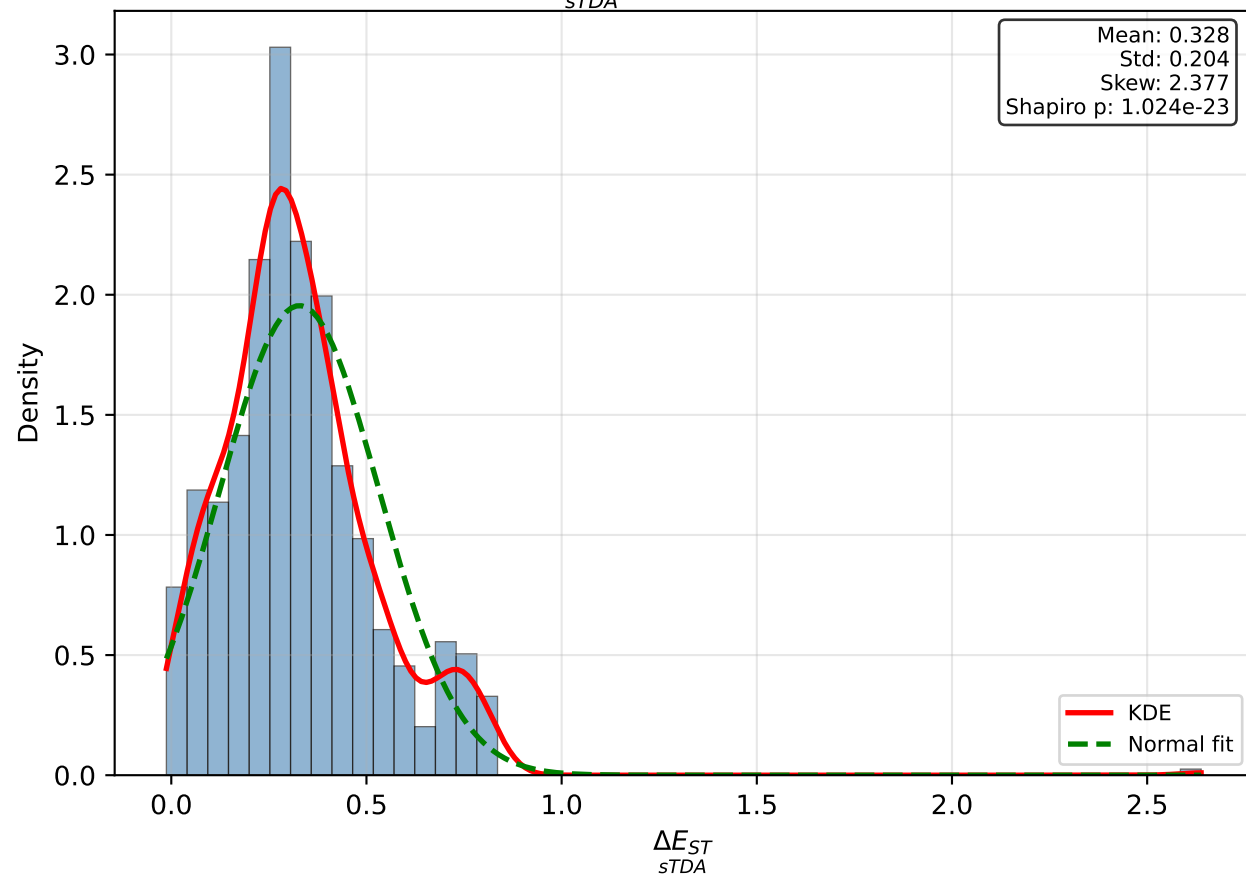
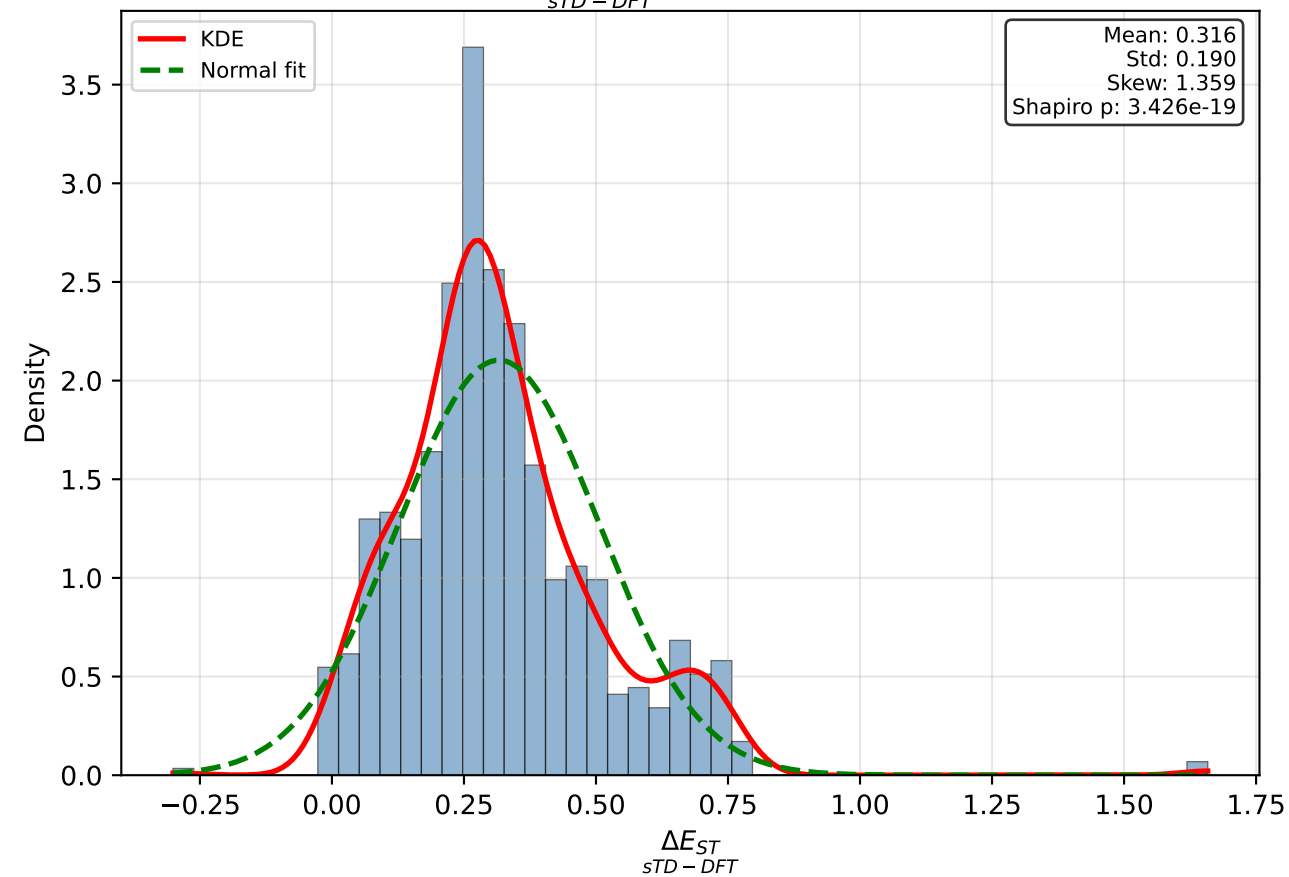


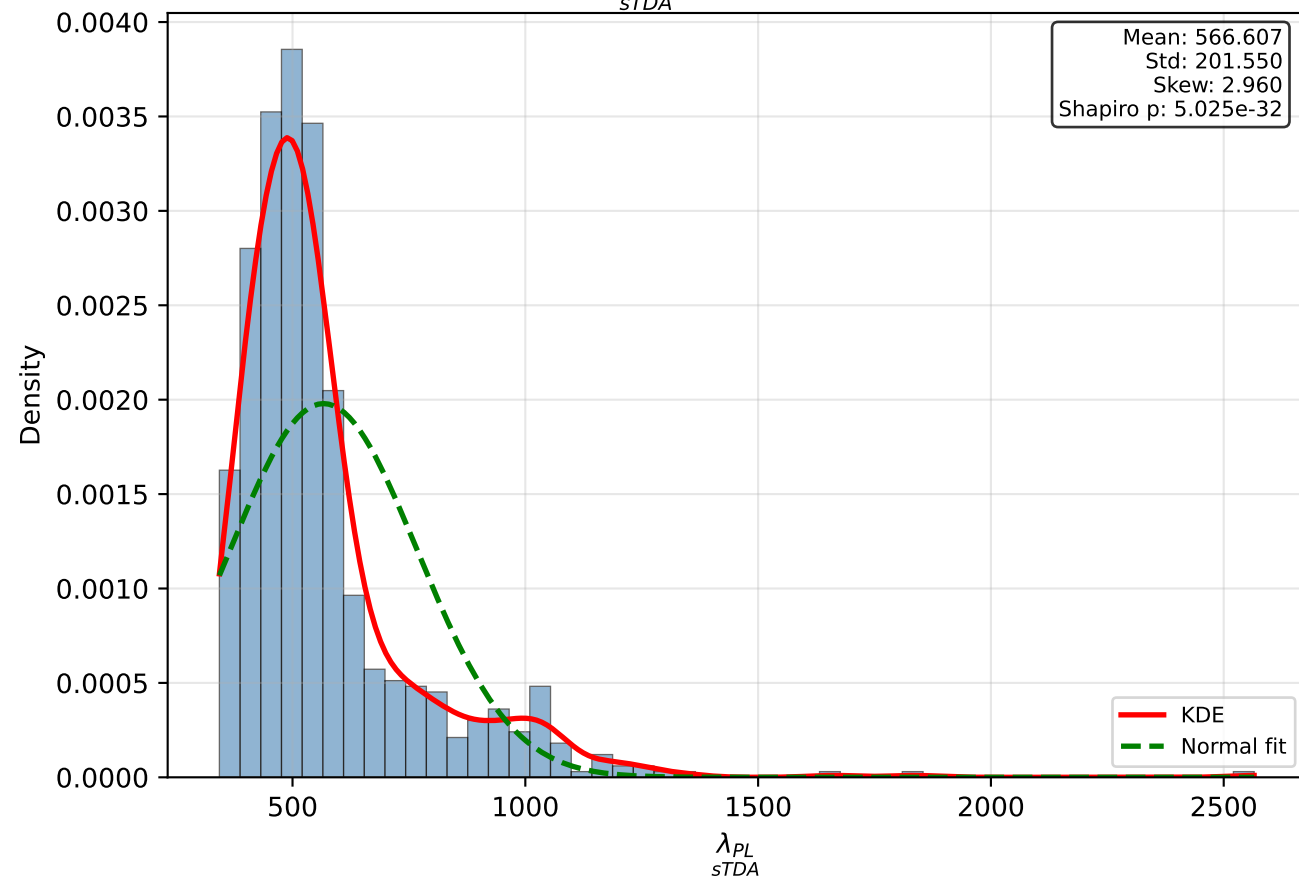
$\Delta E_{ST}$  Distribution  
 $sTDA$



$\Delta E_{ST}$  Distribution  
 $sTD - DFT$



$\lambda_{PL}$  Distribution  
 $sTDA$



$\lambda_{PL}$  Distribution  
 $sTD - DFT$

