CHEM2504 HW 6

Due: Apr 16, 3:00 pm, 2024

Given a density matrix $D(t)$ for a time-dependent system, since $D(t)$ is a Hermitian matrix, it is always possible to find out the eigenvectors and eigenvalues of D at any time t. Demonstrate that the eigenvalues of $D(t)$ (i.e. $\overline{D}(t)$) will NOT change during the evolution. ($\dot{\overline{D}}(t) = 0$)