

Study of Stability of Symmetric and Self Adjoint Operators on A Hilbert Space

Dr. Ashutosh Kumar

We study the Schrodinger and Dirac operators. A detailed investigation of the Spectra of Hamiltonian operators corresponding to the hydrogen and Helium atoms is included.

Hilbert Space is a special class of Banach space with the added structure of inner product. We use this additional structure to obtain a deeper insight into the nature of spectra of operators and their perturbations.