

## Khon-Sham approach to Quantum-Elwectrodynamical Density Functional Theory

**M. Ayub Faridi and Abeeha Batool**

Centre for High Energy Physics, University of the Punjab, Pakistan

The density-functional theory (DFT) for quantum electrodynamics provides the significant role for Kohn Sham (KS) system. The resulting KS systems for many body methodologies were specified for different values of effective potentials that give the impression of particle-particle (Coulomb) interaction and the particle-photon interaction. Applications of these procedure and methodology to KS potentials enhanced and facilitated the calculations that were become numerically possible