

## Abstract

In this talk, we present an overview of the scientific opportunities that would be addressed by the China Electron-Ion-Collider (EIC). In the first phase the China EIC will be 3 ~ 5 GeV polarized electron on 12 ~ 23 GeV polarized proton (and ions about 12 GeV/nucleon), with luminosity  $1 \sim 2 \times 10^{33} \text{cm}^{-2} \text{s}^{-1}$ .

we will focus on discuss the EIC plan and its exciting physics potentials with the lowest experimental conditions. It converges towards a set of golden experiments that illustrate the science reach on such a facility. It will open up a new window to study the three dimensions (3D) nucleon structure for both sea and valence quarks in both momentum and coordinate space and help fully understand the strong interaction.