

XXV International Baldin Seminar on High Energy Physics Problems
"Relativistic Nuclear Physics and Quantum Chromodynamics"



XXV International Baldin Seminar
on High Energy Physics Problems
Relativistic Nuclear Physics & Quantum Chromodynamics
September 18 - 23, 2023, Dubna, Russia

Contribution ID: 158

Type: **not specified**

Radiative corrections to dilepton production at LHC: the Drell-Yan process vs the Photon Fusion mechanism

One-loop electroweak radiative corrections to dilepton production in hadron collisions via photon fusion for Large Hadron Collider (LHC) experimental program are estimated, the most attention is paid to hard bremsstrahlung. Discussed reaction follows the Drell-Yan process, its studying is the actual task of LHC experimental program. Detailed numerical analysis of electroweak radiative effects to observable quantities (cross sections and forward-backward asymmetry) in wide kinematical region including the CMS LHC experiment in Run3/HL regime corresponding ultra-high energies and dilepton invariant masses is performed.

Primary author: ZYKUNOV, Vladimir (Leading Researcher of Laboratory of High Energy Physics of Joint Institute for Nuclear Research, Dubna, Russia)

Presenter: ZYKUNOV, Vladimir (Leading Researcher of Laboratory of High Energy Physics of Joint Institute for Nuclear Research, Dubna, Russia)

Session Classification: Parallel: Structure functions of hadrons and nuclei