



Contribution ID: 23

Type: **not specified**

Role of parton fragmentation for associated J/psi production at high energies

Friday 19 November 2021 14:20 (20 minutes)

We investigate the role of parton fragmentation processes for associated gauge boson (Z or W) and J/psi production at the LHC conditions. We focused on new partonic subprocesses, namely, the charmed or strange quark excitation followed by the charmed quark fragmentation $c \rightarrow J/\psi + c$. Additionally we take into account the effects of multiple quark and gluon radiation in the initial and final states. We find that these contributions are important and reduce the gap between the theoretical predictions and experimental results.

Primary authors: PROKHOROV, Andrei (Lomonosov Moscow State University (RU), Joint Institute for Nuclear Research (RU)); Dr LIPATOV, Artem (Skobeltsyn Institute of Nuclear Physics Lomonosov Moscow State University, Moscow); Dr BARANOV, Sergey (Lebedev Physical Institute)

Presenter: PROKHOROV, Andrei (Lomonosov Moscow State University (RU), Joint Institute for Nuclear Research (RU))

Session Classification: pp processes