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## **Studies of the double parton scattering using massive vector bosons**

*Wednesday, 12 December 2018 12:30 (30 minutes)*

The thirty-year long history of the studies of the double parton scattering (DPS) lead to a large number of measurements in various channels and wide range of the collisions energies. At the LHC era the role of the DPS in the production processes becomes more and more significant as its contribution is expected to increase at higher energies. Estimates of this contribution provide an important information both on the hadron structure and the possible backgrounds for the Standard model (SM) and beyond the SM processes. Events involving massive vector bosons, which further decay into leptonic or semileptonic final states, provide a clear signature and allow to perform the DPS measurements with high precision. The talk will cover the latest experimental results on the studies of the DPS using double production of massive vector bosons and their production in association with heavy flavours at the LHC.

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