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## **Associated production of electroweak bosons and heavy mesons at LHCb and prospects to observe double parton interactions**

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The production of weak gauge bosons in association with heavy flavored mesons at the LHCb conditions is considered, and a detailed study of the different contributing processes is presented including single and double parton scattering mechanisms. We conclude finally, that double parton scattering dominates the production of same-sign WD states, as well as the production of W- bosons associated with B-mesons. The latter processes can thus be regarded as new useful DPS indicators.

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