

## DPS in High-Energy p-A Collisions and Partonic Correlations

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The joint study of Double Parton Scatterings, in high energy proton-proton and proton-nucleus collisions, can provide a lot of information on multi-parton correlations. The multi-parton structure is in fact probed in a different way by DPS, in p-p and in p-A collisions. In p-A collisions the interpretation of the experimental results may be however complicated by the presence of interference terms, which are missing in p-p. A suitable reaction channel, where interference terms are absent, is WJJ production. By studying WJJ production in p-Pb collisions, we estimate that the fraction of events due to DPS may be larger by a factor 3 or 4, as compared to p-p, while the amount of the increased fraction can give a direct indication on the importance of different correlation terms.

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