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Large rapidity gap events in proton-nucleus collisions at LHC energies

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A dominant role of photon exchange over pomeron one in forward large rapidity gap events in proton-nucleus collisions at LHC energies is discussed. Relative contributions via coherent and incoherent pomeron-exchange and photon-exchange processes for forward large rapidity gap events in pPb collisions [1,2,3] and their A- and Z-dependences are estimated from the recent data on diffractive pp [4,5] and pPb [1] collisions at the LHC.

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