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Separation of electroweak and QCD components of Zgammajj production in hadron colliders based on the parameters of the third jet

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Vector-boson scattering is a key process to probe the electroweak symmetry breaking. It could be studied through the measurements of associated electroweak production of two vector bosons and two jets in the proton-proton collisions. This report focuses on the $Z\gamma jj$ production that have not been observed yet. One of the main reasons is the fact that the cross-section of it's main background - QCD $Z\gamma jj$ production - is up to 2 orders of magnitude higher than that of the electroweak $Z\gamma jj$ production. This work studies whether the use of the third jet kinematics could allow for better separatation of those two components of $Z\gamma jj$ production.

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