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## **NLO QCD+electroweak+decays corrections to ZZ+jet/ $\gamma$ productions at LHC**

In this report, we will give a overview on my recent work, i.e, the first full NLO corrections to ZZ+jet/ $\gamma$  productions at LHC. Besides the general NLO calculation strategies will be sketched, some new problems in our work will also be given detailed discussions, such as photon-jet separation, spin correlation and off-shell effects in Z-boson decays. This report may, in my expectation, given some interesting results and inspiration to both the theoretical and experimental experts.

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