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Study of VBS ZZ production associating two jets with the ATLAS experiment

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The study of vector boson scattering (VBS) in $ZZjj$ events produced in proton-proton collisions with a center of mass energy of 13 TeV will be reported. Data used in analysis were collected by the ATLAS experiment during Run II and correspond to a total integrated luminosity of 139 fb^{-1}. Final states with four-charged lepton ($4l$) or two-charged lepton plus two neutrinos ($2l2\nu$) from the ZZ decays produced in association with two forward/backward jets are used to extract the VBS $ZZjj$ signal. The measurement of the inclusive $ZZjj$ production cross section will be reported. The measurement of the Electroweak VBS ZZ signal strength will be presented as well.

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