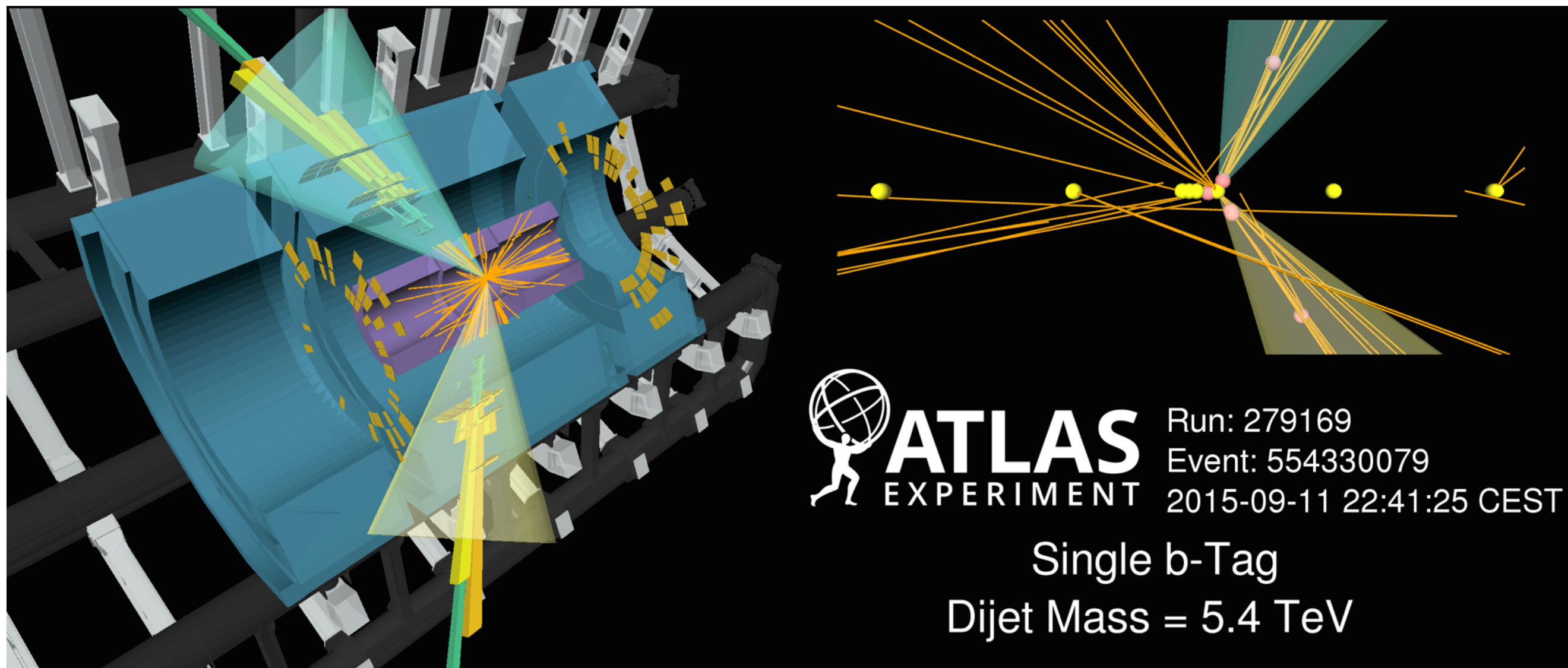




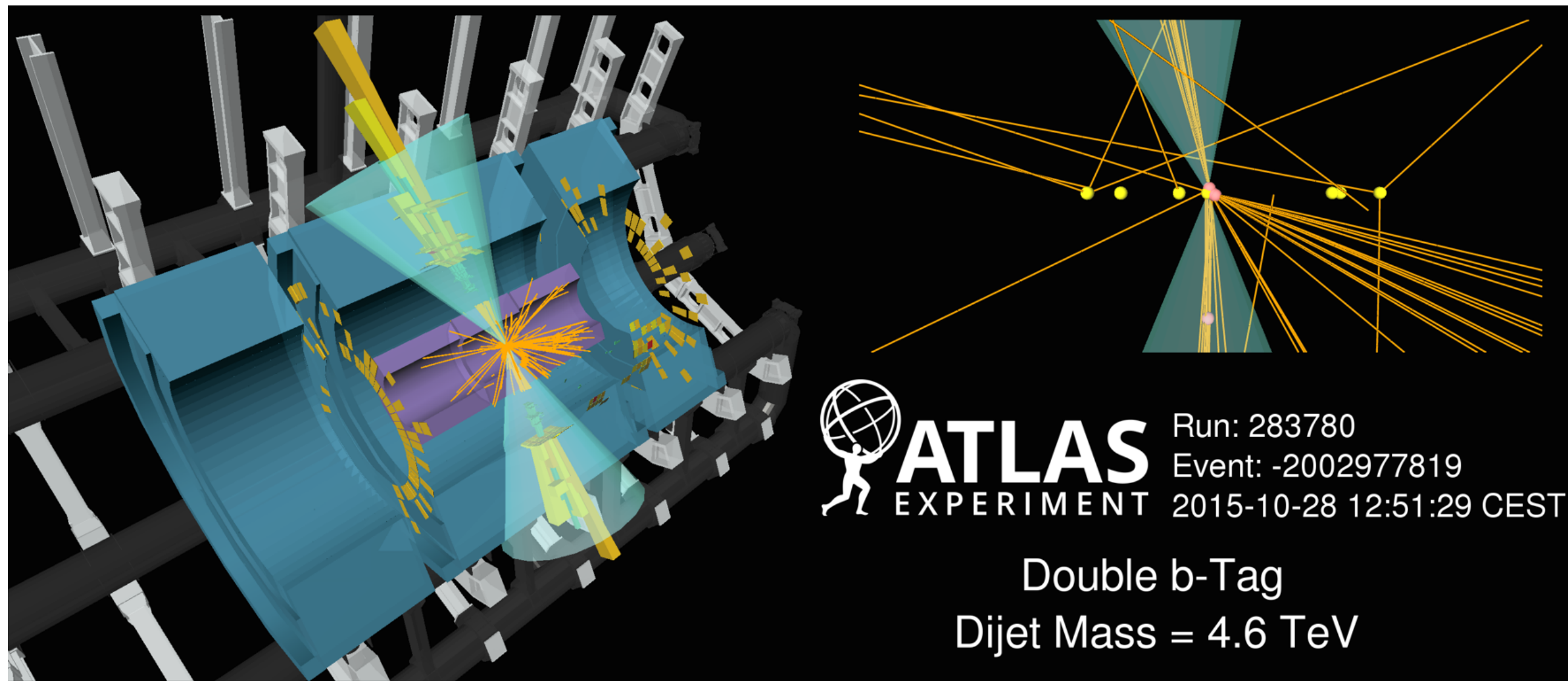
VP1 Event Display Approval

Di-b-jet analysis group

23 March 2015



The highest mass di-jet event collected in 2015 passing the event selection and entering in the ≥ 1 b-tag category. The two central high- p_T jets have an invariant mass of 5.4 TeV. The leading and sub-leading jets both have a p_T of 2.7 TeV and a b-tagging output weight of -0.8989 and 0.3621, respectively. The b-tagging output ranges between -1 and +1. The working point adopted in the search considers a jet as b-tagged if the associated weight is above -0.7887; b-tagged jets are shown in blue and untagged jets are shown in yellow. The left panel shows the two leading jets, energy deposits in the EM and hadronic calorimeters, and reconstructed inner detector tracks. The upper right panel shows a magnified view of reconstructed inner detector tracks with primary vertex candidates, shown by yellow points, and reconstructed secondary vertices, shown by red points.



The highest mass di-jet event collected in 2015 passing the event selection and entering in the 2 b-tag category. The two central high- p_T jets have an invariant mass of 4.6 TeV. The leading and sub-leading jets both have a p_T of 2.3 TeV and a b-tagging output weight of 0.6434 and 0.3868, respectively. The b-tagging output ranges between -1 and +1. The working point adopted in the search considers a jet as b-tagged if the associated weight is above -0.7887. The left panel shows the two leading jets, energy deposits in the EM and hadronic calorimeters, and reconstructed inner detector tracks. The upper right panel shows a magnified view of reconstructed inner detector tracks with primary vertex candidates, shown by yellow points, and reconstructed secondary vertices, shown by red points.