

Figure 3: Efficiency of the EF_mu4_Jpsimumu vs η of μ1 reconstructed pT.

Measurement of the ATLAS di-muon trigger efficiency in proton-proton collisions at 7 TeV

Arturo Sánchez Pineda for the ATLAS Collaboration

The B physics program of the ATLAS experiment includes the study of the production cross sections, the searches for rare b decays signatures which are sensitive to new physics at the TeV energy scale and the measurements of CP violation effects in B-events, such as $B_{s0} \to J/\psi$ ϕ and $B_d \to J/\psi$ K_s . The key to the detection of these B signals in ATLAS is to achieve a high trigger

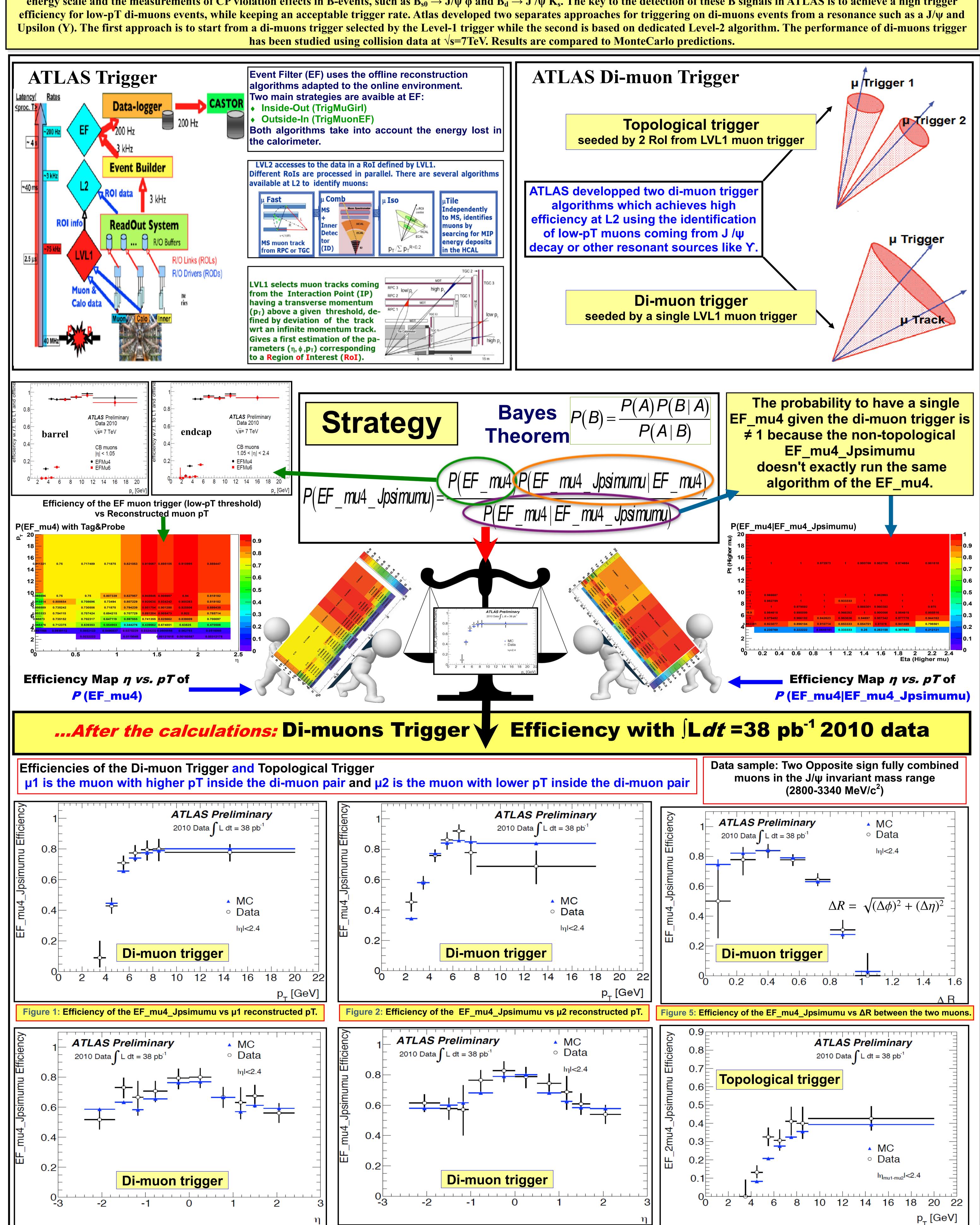


Figure 4: Efficiency of the EF_mu4_Jpsimumu vs η of μ2 reconstructed pT.

Figure 6: Efficiency for EF_2mu4_Jpsimumu vs µ1 reconstructed pT.