

Data selection

September 29, 2019

$$pp \rightarrow P_c + \dots$$

$$P_c \rightarrow J/\psi p$$

Candidate	Variable	Requirement
μ^\pm	track fit χ^2/ndf clone removal: Δ_{KL}^{min} p_T p particle identification	< 4 > 5000 $> 1\text{GeV}/c$ $> 10\text{GeV}/c$ identified as muon
$J/\psi \rightarrow \mu^+\mu^-$	vertex χ^2/ndf p_T $M_{\mu\mu}$	< 20 $> 3.5\text{GeV}/c$ $\in [3040; 3140] \text{ MeV}/c^2$
p	track fit χ^2/ndf clone removal: Δ_{KL}^{min} p_T p particle identification	$< 5(?)$ $> 5000(?)$? ? identified as proton
$J/\psi p$	vertex χ^2/ndf $Q = M_{\mu\mu p} - M_{\mu\mu} - M_p$ $M_{J/\psi p}$ (after J/ψ mass constraint) impact parameter	< 5 $< 300\text{MeV}/c^2$ $\in [4000, 6000] \text{ MeV}/c^2$ $< ?$