

W + jets selection

Channel	$W \rightarrow e\nu$	$W \rightarrow \mu\nu$
Lepton p_T^ℓ		$> 30 \text{ GeV}$
Lepton $ \eta^\ell $		< 2.1
Lepton isolation $I_{\text{comb}} / p_T^\ell$	< 0.15	< 0.12
Transverse mass m_T		$> 55 \text{ GeV}$
Jet p_T^{jet}		$> 25 \text{ GeV}$
Jet $ \eta^{\text{jet}} $		< 2.5
$\Delta R(\text{jet}, \ell)$		> 0.5

W+c – SL channel

Muon in jet p_T^μ	$< 25 \text{ GeV}$	
Muon in jet $ \eta^\mu $	< 2.1	
Muon in jet $p_T^\mu / p_T^{\text{jet}}$	< 0.6	
Muon in jet isolation $I_{\text{comb}} / p_T^\ell$	> 0.2	
Muon in jet IPS	—	> 1
Muon in jet $m_{\mu\mu}$	—	$> 12 \text{ GeV} \&$ $\notin [70, 110 \text{ GeV}]$

W+c – SV channel

Secondary-vertex displacement significance, SV 3D	> 3.5
Corrected secondary-vertex mass, $m_{\text{SV}}^{\text{corr}}$	$> 0.55 \text{ GeV}$
Secondary-vertex charge	$\neq 0$