

Requirement	Number of candidates	
	$W \rightarrow e\nu$	$W \rightarrow \mu\nu$
Trigger	6.5×10^6	5.1×10^6
Lepton: e with $E_T > 20$ GeV or μ with $p_T > 20$ GeV	4003	7052
Muon isolation: $\sum p_T^{\text{ID}}/p_T < 0.2$	—	2920
$E_T^{\text{miss}} > 25$ GeV	1116	1220
$m_T > 40$ GeV	1069	1181

Table 2: Number of $W \rightarrow e\nu$ and $W \rightarrow \mu\nu$ candidates in data, remaining after each major requirement.

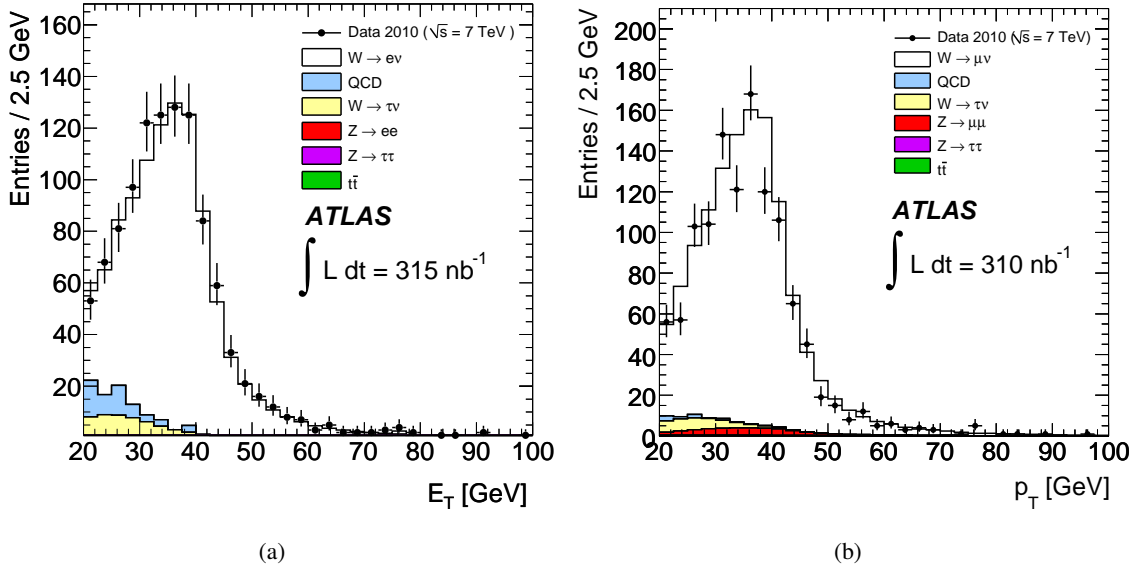


Fig. 5: Distributions of the electron cluster E_T (a) and muon p_T (b) of the W candidates after final selection. The requirements of $E_T^{\text{miss}} > 25$ GeV and $m_T > 40$ GeV are applied. The data are compared to Monte-Carlo simulation, broken down into the signal and various background components.

Requirement	Number of candidates	
	$Z \rightarrow ee$	$Z \rightarrow \mu\mu$
Trigger	6.5×10^6	5.1×10^6
Two leptons (ee or $\mu\mu$ with $E_T(p_T) > 20$ GeV)	83	144
Muon isolation: $\sum p_T^{\text{ID}}/p_T < 0.2$	—	117
Opposite charge ee or $\mu\mu$ pair:	78	117
$66 < m_{\ell\ell} < 116$ GeV	70	109

Table 3: Number of $Z \rightarrow ee$ and $Z \rightarrow \mu\mu$ candidates in data, remaining after each major requirement.

Table 3 summarises the number of $Z \rightarrow \ell\ell$ candidates remaining after each major requirement has been imposed. A total of 70 candidates pass all requirements in the electron channel and 109 candidates in the muon channel, within the invariant mass window $66 < m_{\ell\ell} < 116$ GeV. Figure 7 shows the electron cluster E_T and muon combined p_T of the lepton candidates. The breakdown of the various background contributions are also shown in this figure. Due to the small size of the backgrounds in both channels, backgrounds are not shown in the subsequent distributions for the Z analysis. Figure 8 shows the p_T spectrum of the $Z \rightarrow \ell\ell$ candidates. The invariant mass distribution of the lepton pairs is presented in Fig. 9. The observed resolution degradation in the muon data compared to design expectations is currently under investigation. It has been taken into account in the systematic uncertainties of the cross-