

Control region background fit results

Tables 1–3 show the background fit results in the control regions.

Control region	8j50			9j50
b -jets	0	1	≥ 2	≥ 2
Observed events	8	15	20	7
Total events after fit	8.0 ± 2.3	14.6 ± 2.6	23 ± 4	5.3 ± 1.4
Total events before fit	10	18	29	6

Table 1: Number of observed, fitted and expected events for the ‘multi-jet + flavour’ stream $p_T^{\min} = 50 \text{ GeV}$ control regions with more than two expected events, i.e. the control regions that are taken into account in the fit.

Control region	7j80			8j80
b -jets	0	1	≥ 2	≥ 2
Observed events	5	2	5	1
Total events after fit	4.3 ± 1.4	2.5 ± 1.4	4.7 ± 1.5	1.3 ± 1.1
Total events before fit	3.3	5	3.5	3.4

Table 2: As for table 1 but for the ‘multi-jet + flavour’ stream $p_T^{\min} = 80 \text{ GeV}$ control regions.

Control region	8j50	
$M_J^\Sigma [\text{GeV}]$	340	420
Observed events	5	4
Total events after fit	5.0 ± 2.3	4.0 ± 1.8
Total events before fit	8	4

Table 3: As for table 1 but for the ‘multi-jet + M_J^Σ ’ stream control regions.