

| Source                     | Number of $e\mu$ events |                        |
|----------------------------|-------------------------|------------------------|
|                            | 7 TeV                   | 8 TeV                  |
| DY                         | $22 \pm 3 \pm 3$        | $173 \pm 25 \pm 26$    |
| Non W/Z                    | $51 \pm 5 \pm 15$       | $146 \pm 10 \pm 44$    |
| Single top quark (tW)      | $204 \pm 3 \pm 61$      | $1034 \pm 3 \pm 314$   |
| VV                         | $7 \pm 1 \pm 2$         | $35 \pm 2 \pm 11$      |
| $t\bar{t}V$                | $12 \pm 1 \pm 3$        | $84 \pm 1 \pm 26$      |
| Total background           | $296 \pm 6 \pm 63$      | $1472 \pm 27 \pm 319$  |
| $t\bar{t}$ dilepton signal | $5008 \pm 15 \pm 188$   | $24440 \pm 44 \pm 956$ |
| Data                       | 4970                    | 25441                  |