

| $T\bar{T}$ (1.0 TeV) |             |             |              | $B\bar{B}$ (1.0 TeV) |             |             |              |
|----------------------|-------------|-------------|--------------|----------------------|-------------|-------------|--------------|
| Decay mode           | $1\ell$     | $SS2\ell$   | $\geq 3\ell$ | Decay mode           | $1\ell$     | $SS2\ell$   | $\geq 3\ell$ |
| tHtH                 | 9.1         | <b>1.1</b>  | 0.74         | bHbH                 | 2.9         | 0.16        | 0.08         |
| tHtZ                 | 8.4         | <b>0.78</b> | <b>1.50</b>  | bHbZ                 | 1.8         | 0.05        | 0.22         |
| tHbW                 | <b>11.0</b> | 0.61        | 0.29         | bHtW                 | <b>11.2</b> | <b>0.61</b> | 0.31         |
| tZtZ                 | 7.4         | 0.45        | <b>1.92</b>  | bZbZ                 | 1.0         | 0.02        | 0.25         |
| tZbW                 | 9.2         | 0.34        | 0.88         | bZtW                 | 9.2         | 0.23        | <b>0.89</b>  |
| bWbW                 | <b>10.8</b> | 0.02        | —            | tWtW                 | <b>12.3</b> | <b>2.5</b>  | <b>1.28</b>  |
| $T\bar{T}$ (1.2 TeV) |             |             |              | $B\bar{B}$ (1.2 TeV) |             |             |              |
| Decay mode           | $1\ell$     | $SS2\ell$   | $\geq 3\ell$ | Decay mode           | $1\ell$     | $SS2\ell$   | $\geq 3\ell$ |
| tHtH                 | 10.9        | <b>1.4</b>  | 0.81         | bHbH                 | 3.2         | 0.19        | 0.08         |
| tHtZ                 | 10.1        | <b>0.93</b> | <b>1.48</b>  | bHbZ                 | 2.0         | 0.08        | 0.19         |
| tHbW                 | <b>12.4</b> | 0.71        | 0.31         | bHtW                 | <b>12.6</b> | <b>0.73</b> | 0.29         |
| tZtZ                 | 8.8         | 0.53        | <b>1.98</b>  | bZbZ                 | 1.0         | 0.03        | 0.20         |
| tZbW                 | 10.4        | 0.27        | 0.87         | bZtW                 | 10.4        | 0.28        | <b>0.87</b>  |
| bWbW                 | <b>11.4</b> | 0.04        | —            | tWtW                 | <b>14.1</b> | <b>2.8</b>  | <b>1.33</b>  |
| $T\bar{T}$ (1.4 TeV) |             |             |              | $B\bar{B}$ (1.4 TeV) |             |             |              |
| Decay mode           | $1\ell$     | $SS2\ell$   | $\geq 3\ell$ | Decay mode           | $1\ell$     | $SS2\ell$   | $\geq 3\ell$ |
| tHtH                 | 11.7        | <b>1.5</b>  | 0.81         | bHbH                 | 3.2         | 0.19        | 0.07         |
| tHtZ                 | 10.8        | <b>0.95</b> | <b>1.47</b>  | bHbZ                 | 2.0         | 0.07        | 0.18         |
| tHbW                 | <b>13.3</b> | 0.49        | 0.30         | bHtW                 | <b>13.4</b> | <b>0.75</b> | 0.29         |
| tZtZ                 | 9.3         | 0.29        | <b>1.87</b>  | bZbZ                 | 1.0         | 0.02        | 0.20         |
| tZbW                 | 10.9        | 0.75        | 0.85         | bZtW                 | 11.0        | 0.29        | <b>0.81</b>  |
| bWbW                 | <b>11.8</b> | 0.03        | —            | tWtW                 | <b>15.4</b> | <b>3.05</b> | <b>1.36</b>  |