## Event and Track Yields

Event and Track Yields - \( m_{H^\pm} = 100 \text{ GeV/c}^2 \), \( m_A = 8 \text{ GeV/c}^2 \), \( \mathcal{R}(t \to H^\pm b) = 0.086 \)

<table>
<thead>
<tr>
<th>Source</th>
<th>Events</th>
<th>Tracks</th>
<th>Exp/Theory</th>
<th>JES Acceptance</th>
<th>JES Track Rate (-,+</th>
<th>Tracking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top/Signal W’s</td>
<td>804.69</td>
<td>2.63</td>
<td>±0.21</td>
<td>±0.13</td>
<td>-0.04, 0.08</td>
<td>±0.08</td>
</tr>
<tr>
<td>A Boson</td>
<td>132.98</td>
<td>22.93</td>
<td>±1.87</td>
<td>±1.10</td>
<td>0.39, -0.37</td>
<td>±0.73</td>
</tr>
<tr>
<td>Z/\gamma^*+Jets</td>
<td>18.70</td>
<td>0.74</td>
<td>±0.06</td>
<td>-</td>
<td>0.04, -0.01</td>
<td>±0.02</td>
</tr>
<tr>
<td>Diboson</td>
<td>11.21</td>
<td>0.05</td>
<td>±0.01</td>
<td>±0.01</td>
<td>0.01, -0.01</td>
<td>±0.01</td>
</tr>
<tr>
<td>Underlying Event</td>
<td>-</td>
<td>79.41</td>
<td>±11.89</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Observed</strong></td>
<td>1052</td>
<td>70</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Expected number of events (1\textsuperscript{st} column) before track requirement, and with at least one isolated track (2\textsuperscript{nd} column) with \( p_T > 3 \text{ GeV/c} \) in 2.7pb\(^{-1}\). Uncertainties are on the number of expected tracks. Top, signal, Z/\gamma^*+Jets, and diboson tracks are isolated tracks from W\(^\pm\) or A daughters.