$Z H \rightarrow \ell^+ \ell^- + \text{invisible}$ (signal region)

CDF Run II Preliminary, $\mathcal{L} = 9.7$ fb$^{-1}$

<table>
<thead>
<tr>
<th>Proc.</th>
<th>Rate (pb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>$Z$ + jets</td>
<td>$7.1 \pm 3.1$</td>
</tr>
<tr>
<td>$W$ + jets</td>
<td>$3.8 \pm 0.6$</td>
</tr>
<tr>
<td>$W\gamma$</td>
<td>$0.5 \pm 0.1$</td>
</tr>
<tr>
<td>$t\bar{t}$</td>
<td>$5.5 \pm 0.9$</td>
</tr>
<tr>
<td>$WZ$</td>
<td>$13.7 \pm 1.5$</td>
</tr>
<tr>
<td>$WW$</td>
<td>$19.2 \pm 1.8$</td>
</tr>
<tr>
<td>$ZZ$</td>
<td>$27.2 \pm 2.9$</td>
</tr>
</tbody>
</table>

Total prediction: $76.9 \pm 7.2$

$Z H \ (m_H = 125\text{ GeV}/c^2)\quad 8.2 \pm 1.3$

Data: 78