e+jets analysis

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\( W_{\pi_T} \) b-tag eff

\[ WH \rightarrow b \bar{b} e \nu \quad \text{CC b-tag eff} \]

- Extra Loose
- Loose 1
- Loose 2

Jet \( p_T \)
Data eff vs light quark mistag

Efficiency

Light quark Tag Rate

EXTRA LOOSE
LOOSE 1
LOOSE 2
TIGHT 1
TIGHT 2
TIGHT 3

b tagging efficiency vs. light quark tagging efficiency

Efficiency

Light quark rate
e+jets good taggable jets mult

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<thead>
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<tbody>
<tr>
<td><strong>Entries</strong></td>
<td>8659</td>
</tr>
<tr>
<td><strong>Mean</strong></td>
<td>1.318</td>
</tr>
<tr>
<td><strong>RMS</strong></td>
<td>0.7235</td>
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e+jets data – good jets mult vertex tagged jets

<table>
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e+jets btag background predicted

Jet multiplicity predicted

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e+jets – good jets mult vertex tag compared to predicted

good jets - tagged

htaggedpred_num
Entries  11
Mean    1.719
RMS     1.181

tagged

predicted