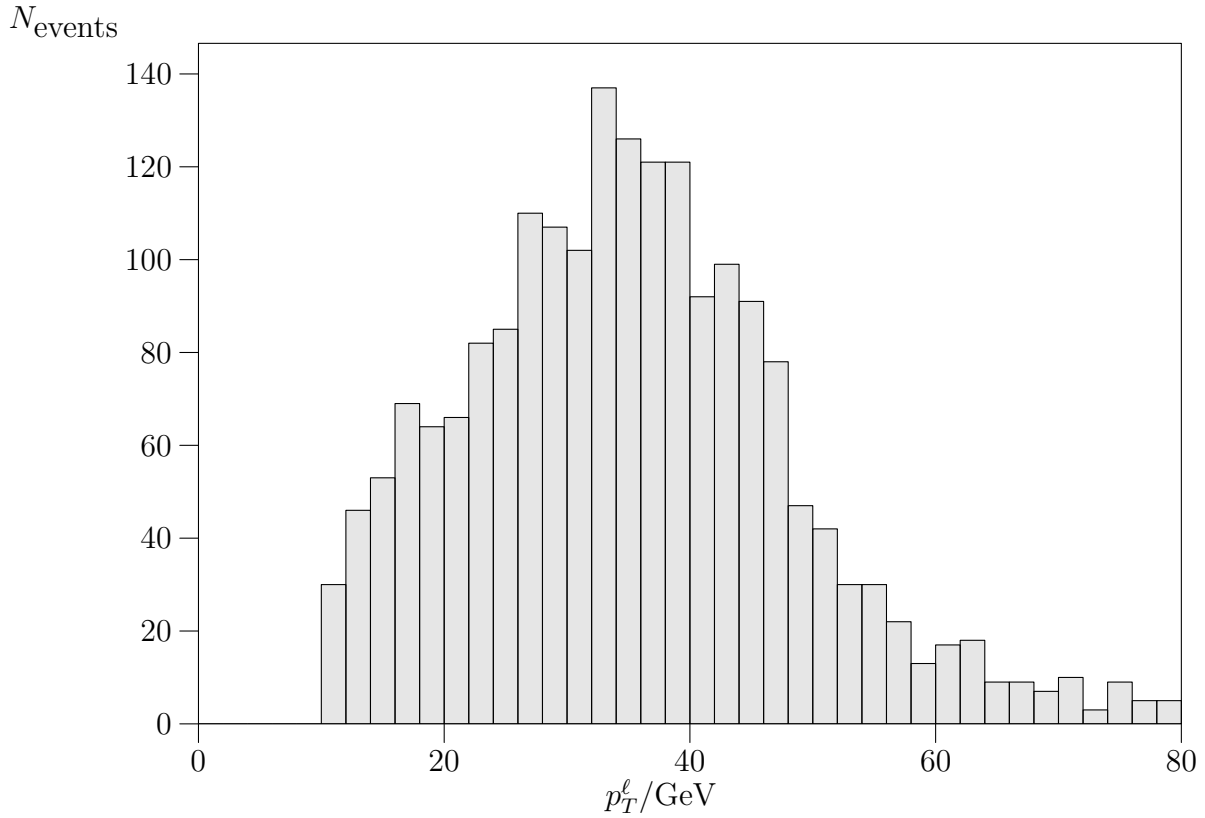


1 W Endpoint (“Jacobian Peak”) in $pp \rightarrow \ell \bar{\nu} j$

A WHIZARD 2.0 Example. Cuts: $p_T(\text{visible}) \geq 10\text{GeV}$



Data within bounds:

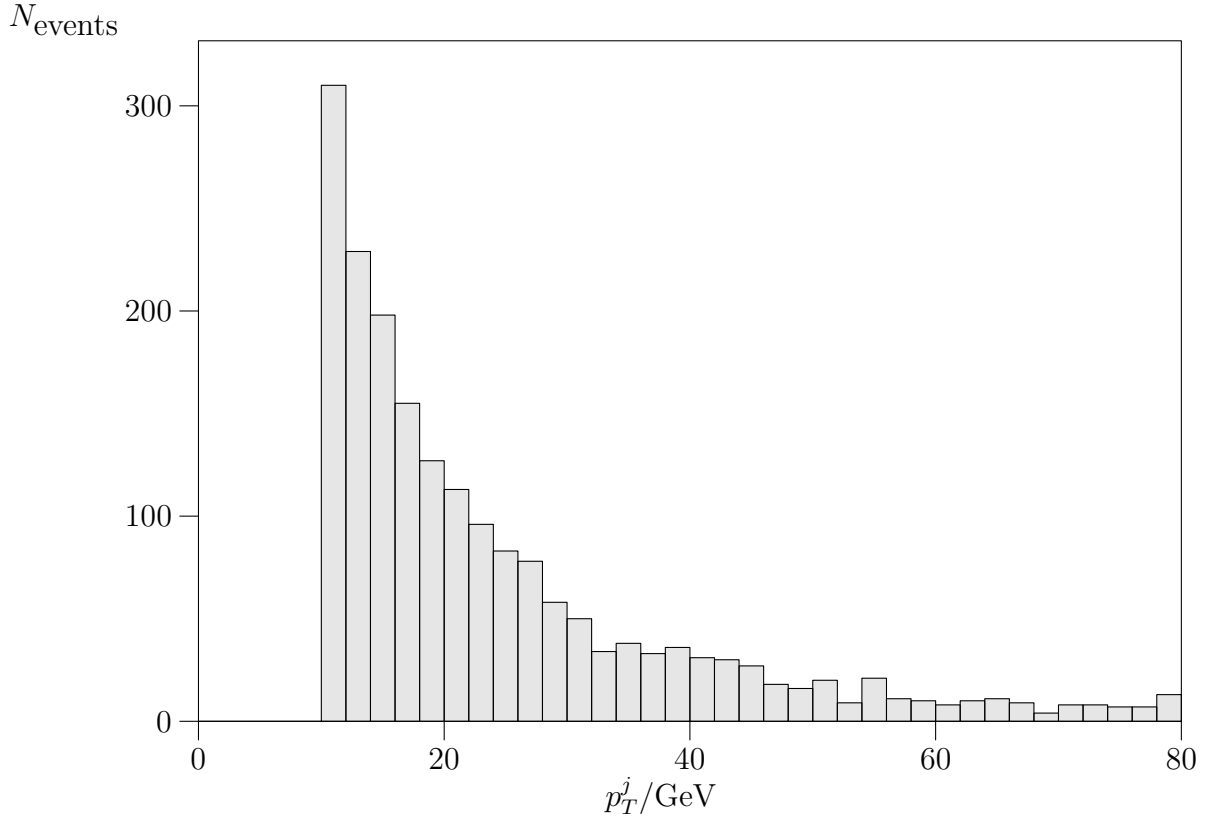
$$\langle \mathcal{O} \rangle = 35.08 \pm 0.30 \quad [n_{\text{entries}} = 1955]$$

All data:

$$\langle \mathcal{O} \rangle = 36.8 \pm 0.41 \quad [n_{\text{entries}} = 2000]$$

2 Jet- p_T in $pp \rightarrow \ell \bar{\nu} j$

A WHIZARD 2.0 Example. Cuts: $p_T(\text{visible}) \geq 10\text{GeV}$



Data within bounds:

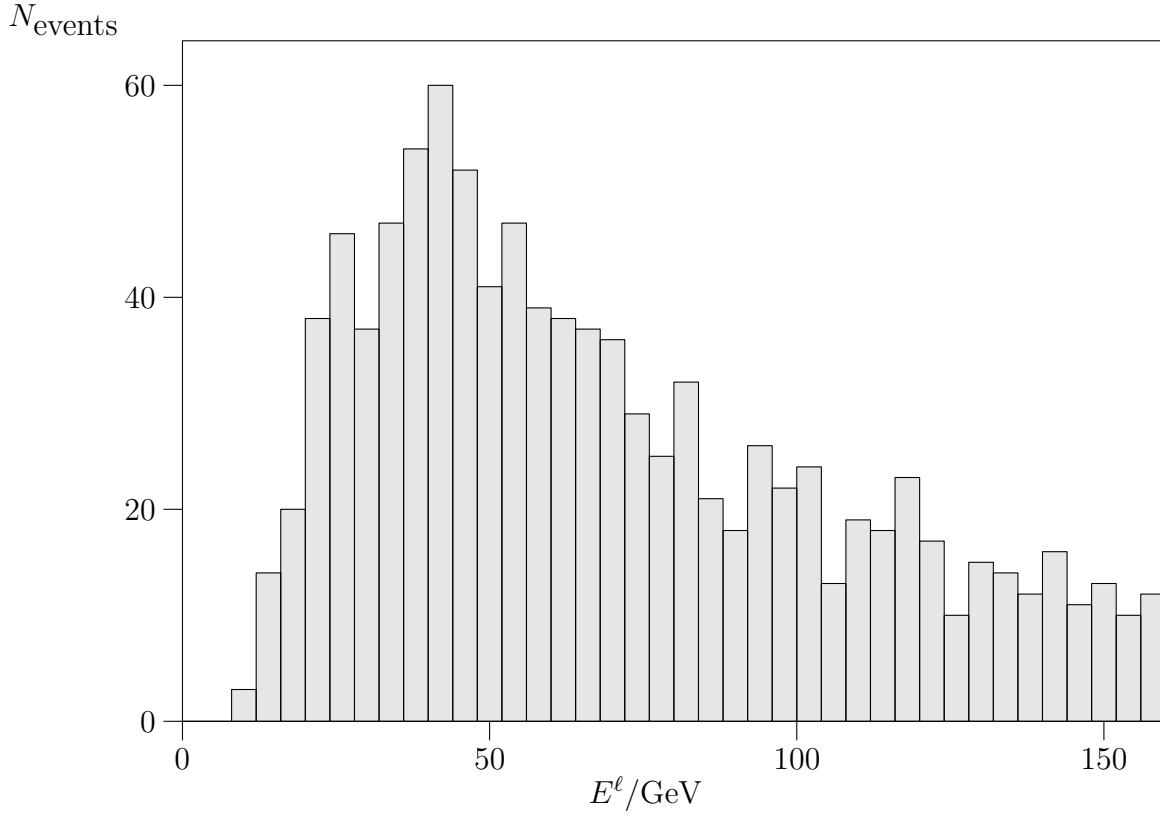
$$\langle \mathcal{O} \rangle = 24.4 \pm 0.34 \quad [n_{\text{entries}} = 1916]$$

All data:

$$\langle \mathcal{O} \rangle = 28.2 \pm 0.56 \quad [n_{\text{entries}} = 2000]$$

3 Lepton Energy in $pp \rightarrow \ell \bar{\nu} j$

A WHIZARD 2.0 Example. Cuts: $p_T(\text{visible}) \geq 10\text{GeV}$



Data within bounds:

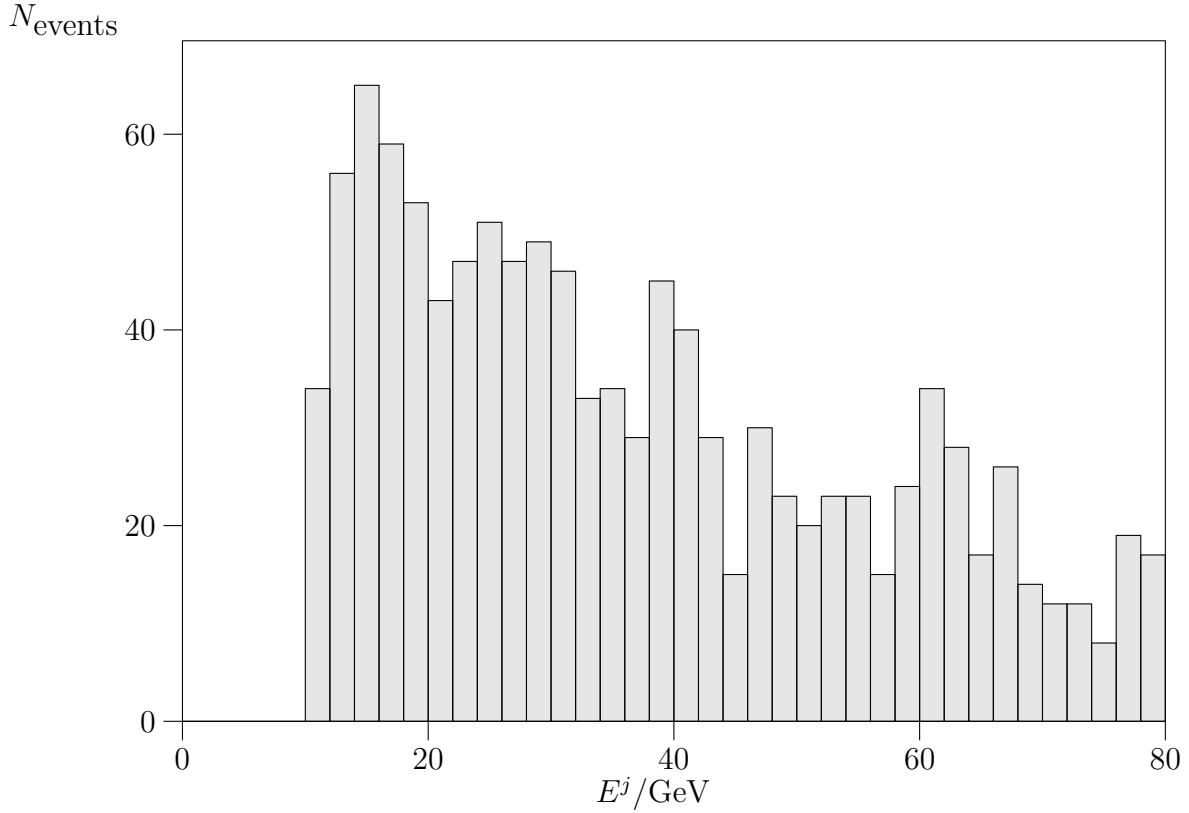
$$\langle \mathcal{O} \rangle = 69.3 \pm 1.18 \quad [n_{\text{entries}} = 1009]$$

All data:

$$\langle \mathcal{O} \rangle = 355. \pm 10. \quad [n_{\text{entries}} = 2000]$$

4 Jet Energy in $pp \rightarrow \ell \bar{\nu} j$

A WHIZARD 2.0 Example. Cuts: $p_T(\text{visible}) \geq 10\text{GeV}$



Data within bounds:

$$\langle \mathcal{O} \rangle = 36.8 \pm 0.56 \quad [n_{\text{entries}} = 1120]$$

All data:

$$\langle \mathcal{O} \rangle = 157. \pm 5.80 \quad [n_{\text{entries}} = 2000]$$