Remove peak from input

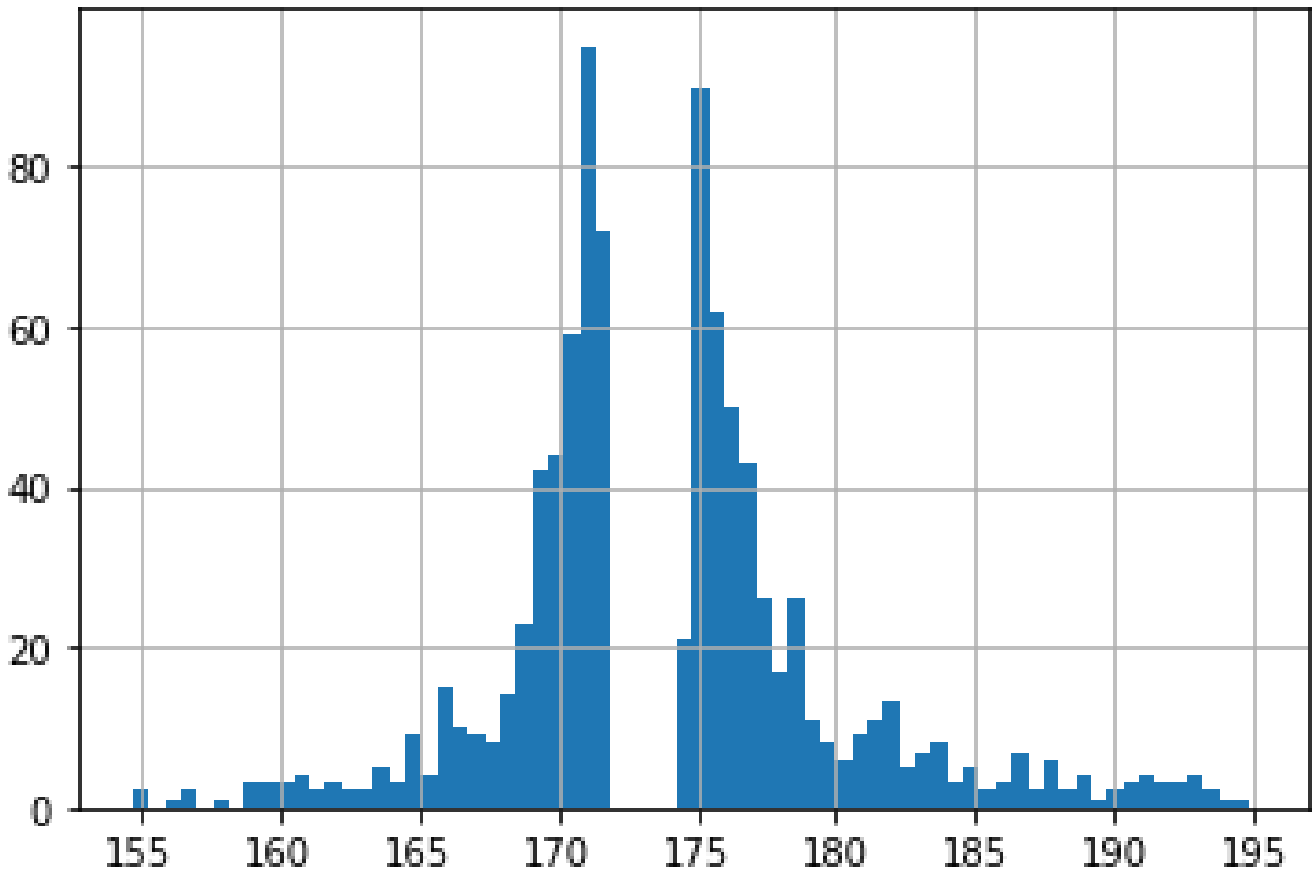

Figure: Histogram showing m_t of events having at least 1.5 GeV difference to the mean

Performance with removed peak

method	mean absolute difference	sd of abs. difference
AdaBoostRegressor	4.9756	4.2130
NN	4.6451	3.9294
always the mean	4.6730	3.7618

Possibly some potential for early stopping the NN because the validation loss starts to increase at some point in training

Reduce peak in input

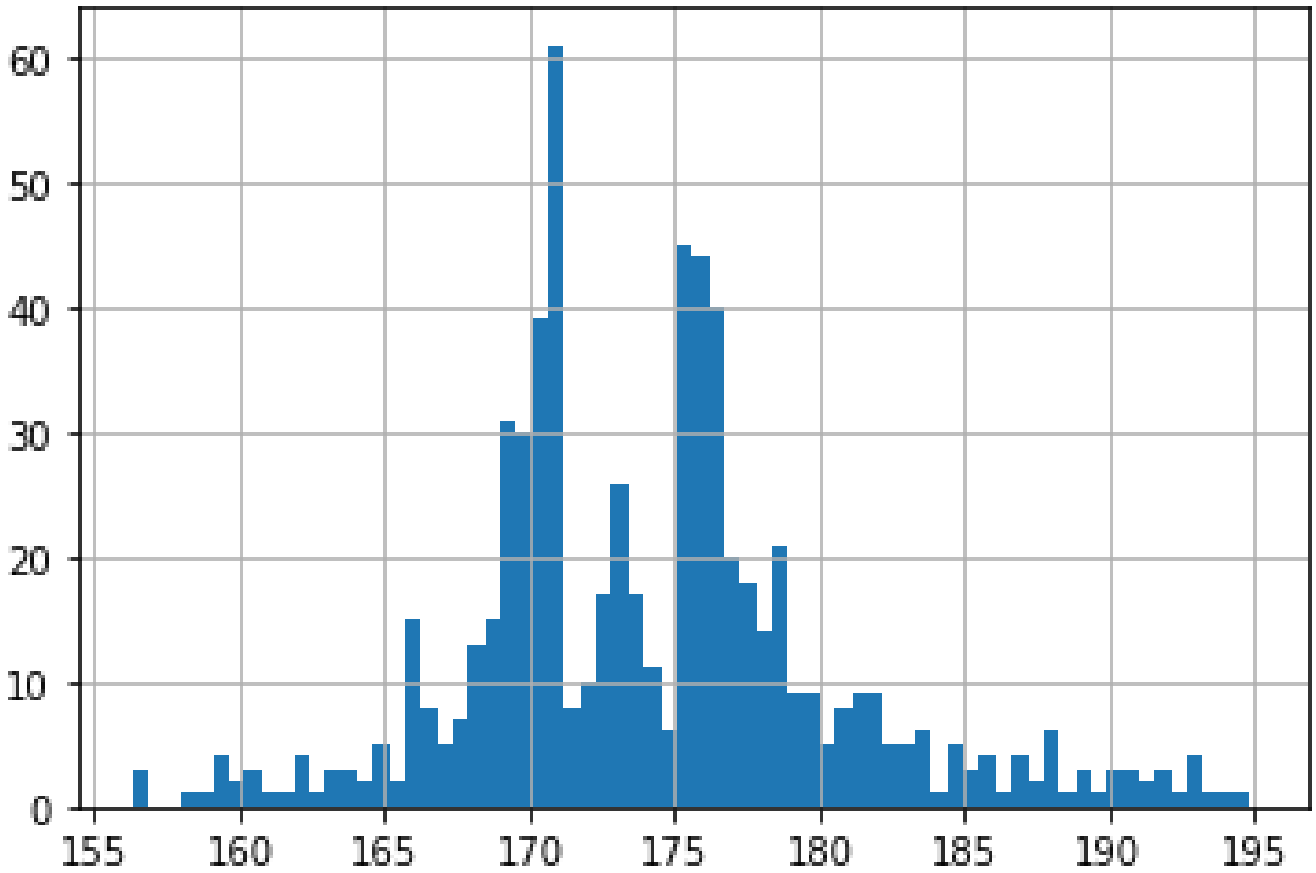

Figure: Histogram showing m_t of events having at least 2 GeV difference to the mean and 1% of the remaining events

Performance with reduced peak

method	mean absolute difference	sd of abs. difference
AdaBoostRegressor	4.6830	3.7100
NN	4.7408	4.0060
always the mean	4.4119	3.7618

Use multiple masses

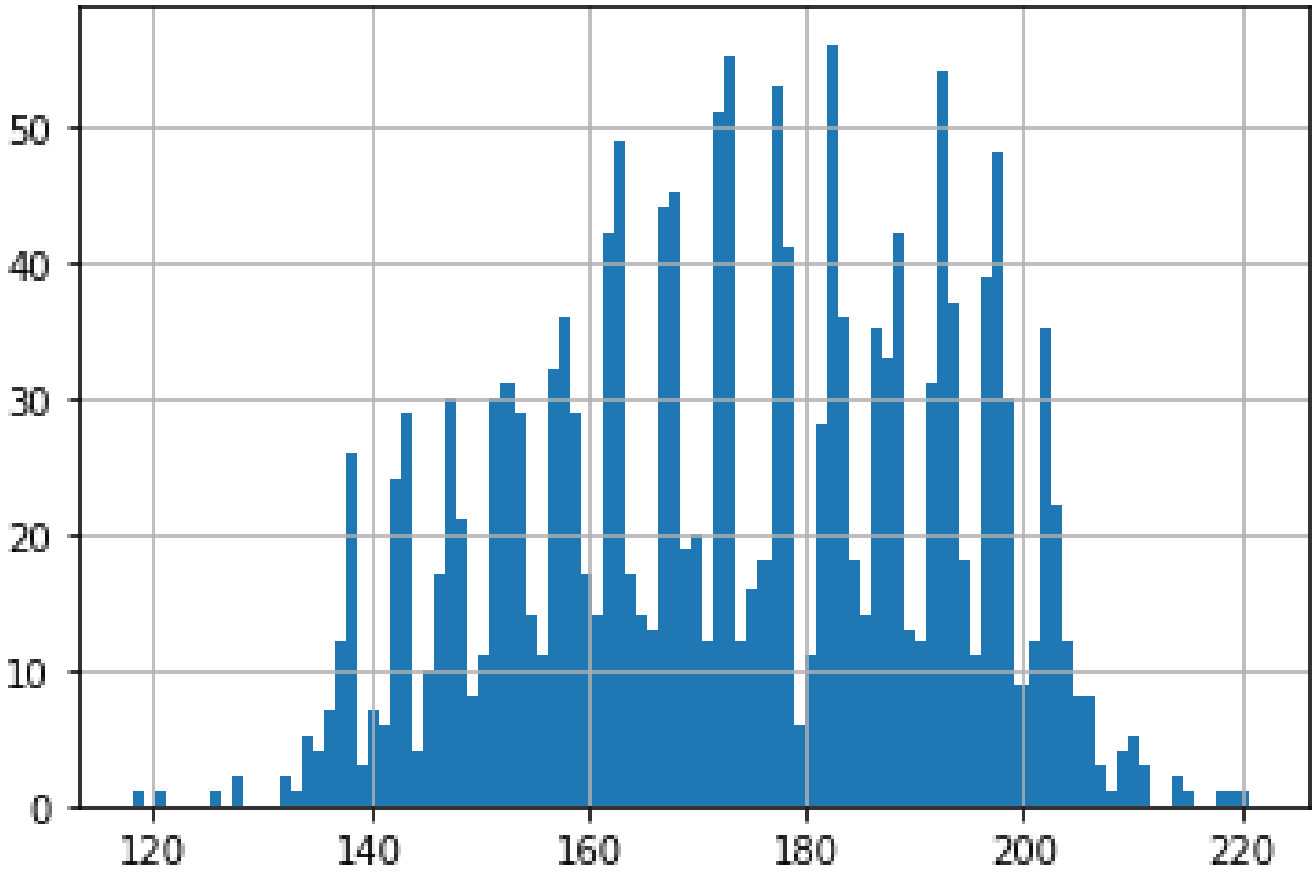

Figure: Histogram showing m_t of events from multiple simulations with $m_t \in \{140, 145, \ldots, 200\}$. Countet masses differ by at least 1.5 GeV from the mean

Performance with multiple masses

method	mean absolute difference	sd of abs. difference
AdaBoostRegressor	15.6931	9.7363
NN	15.8156	10.0516
always the mean	16.0350	9.7038