The CMS collaboration has presented a study of the transverse mass, $m_T$, in the range of $0$ to $300$ GeV, using an integrated luminosity of $19.7$ fb$^{-1}$ at an energy of $8$ TeV. The plot shows the differential distribution of the number of events, $dN/dm_T$, in a MVA-based Pass for various processes:

- Observed
- $t\bar{t} \rightarrow b\bar{b}\mu\mu$
- $W +$ jets
- $Z +$ jets
- Single top
- Diboson
- Multijets
- $t\bar{t} \rightarrow b\bar{b}\mu\tau$

An uncertainty band is also shown for the MVA-based Pass. The lower section of the plot compares the data to simulation, showing a difference in the $m_T$ distribution with $0.2$ units of deviation.