

ATLAS Data Analysis Meeting

Machine Learning Methods



Variables

- $W^{+/-}$ -mass
- Summed transverse impulse bottom+antibottom
- Summed transverse impulse quark+antiquark
- $\cos \theta$ (W^- , $e^- \bar{\nu}$)
- $\cos \theta$ (W^+ , quark with highest/lowest transverse impulse)
- ΔR (bottom, antibottom)
- ΔR (quark, antiquark)

Neuronal Network

- 1 hidden layer
- 20 neurons
- 60 epochs
- Batch size: 1000
- Number of events: 50000
- Slope: 0.1
- Learning rate: 5e-3

Neuronal Network

