1 Neural network triggers

1.1 Motivation & Design considerations

The station-level triggers in the previous chapter have been shown to perform well enough for the science case of the Pierre Auger Observatory. The combined operation of all triggers guarantee full detection efficiency of air showers from approximately $10^{18.5}$eV upwards. [to do: but wouldn't it be nice if we could go lower]

1.2 ???

1. Have problem

2. Throw math at problem

3. ???

4. Profit

[to do: write this]

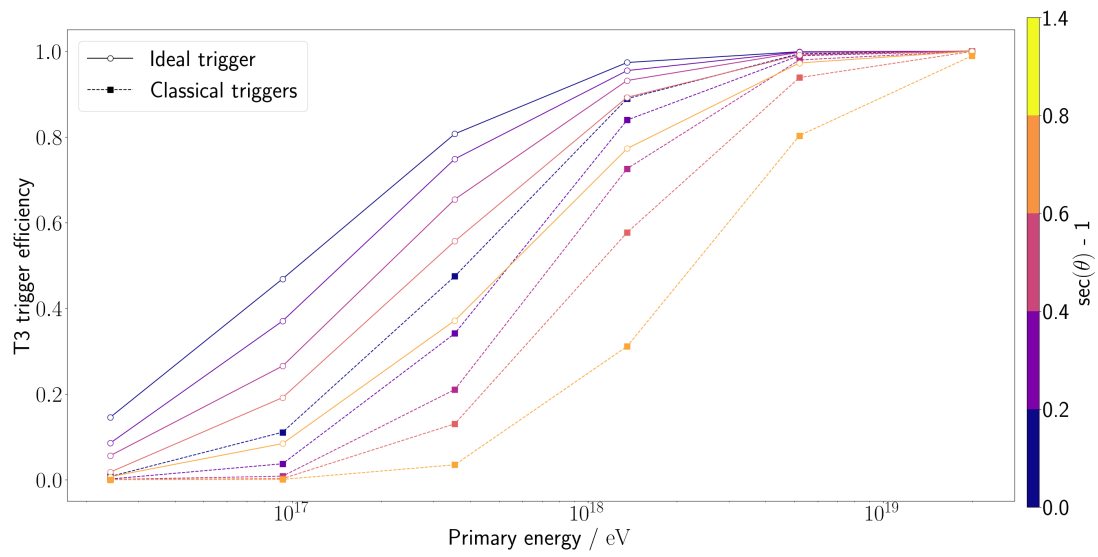**Figure 1.1:** ...