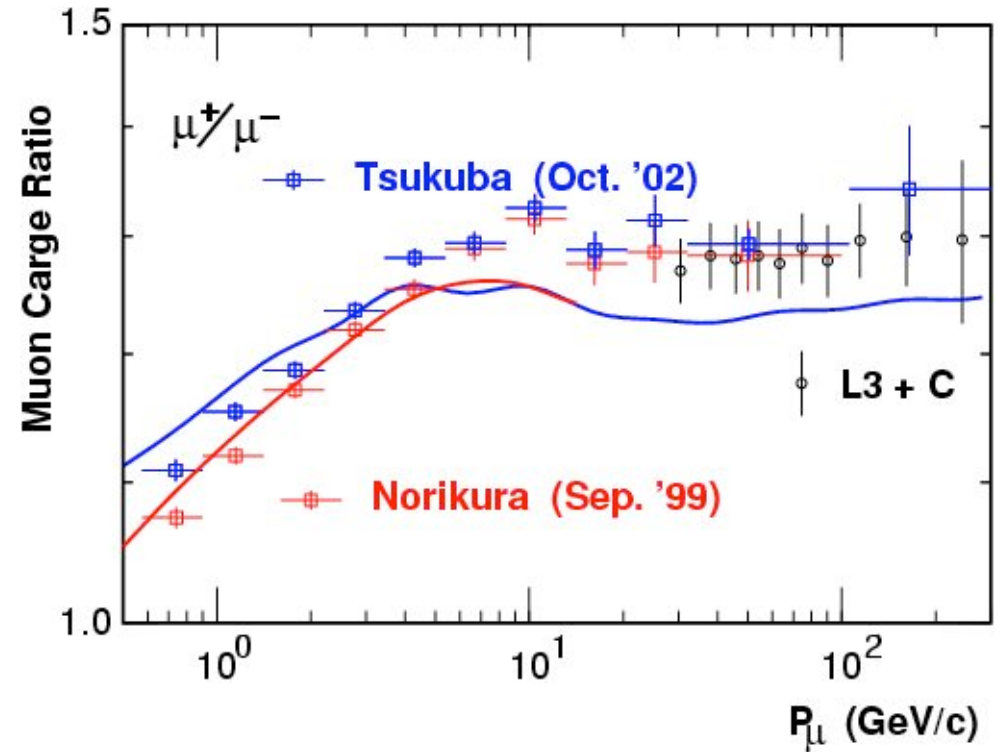
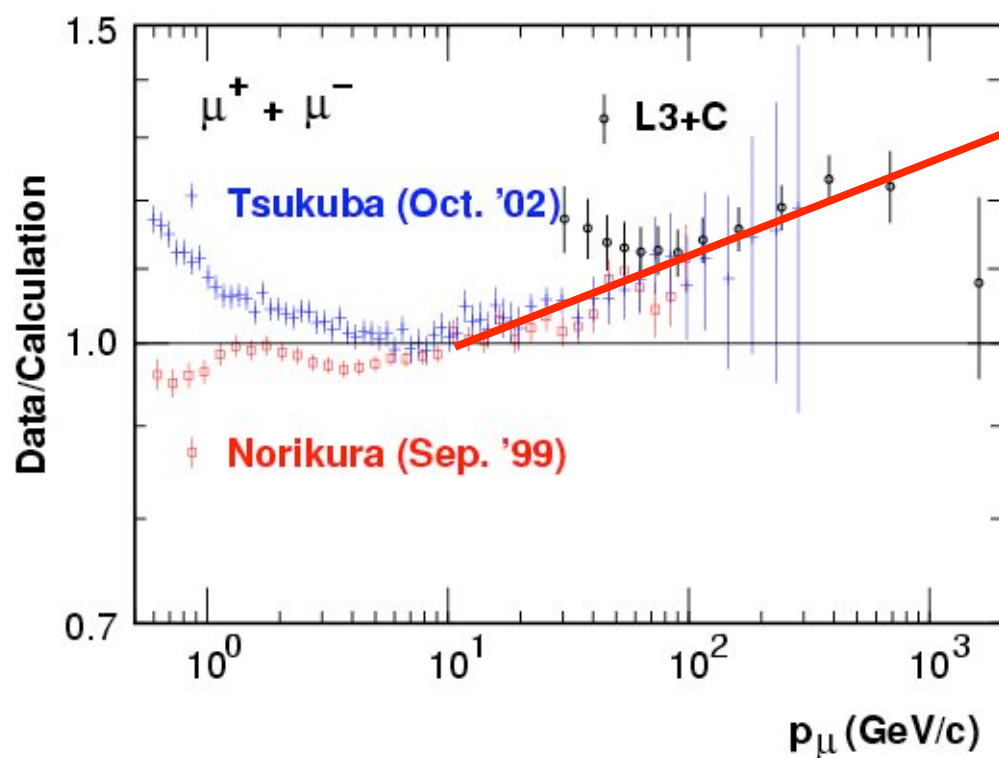


Comparison of Muon Flux Calculated in HKKM04 and Observed Data.

The differences are $\sim 5\%$ in absolute value for $1 \sim 30 \text{ GeV}/c$, and $\sim 5\%$ in charge ratio for all momentums.



The difference of the absolute value increases at high energies, as $\sim (P/10 \text{ GeV})^{0.05}$.