baseline fluxes : SIBYLL $(\pi, K, c)$ ,  $\mathcal{L}_{pp} = 3 \text{ ab}^{-1} \text{ FASER}\nu \text{ Run } 4 + 5$  $10^{6}$  $\nu_{\mu}W \to \mu X_h$  $\bar{\nu}_{\mu}W \to \mu^{+}X_{h}$  $10^{5}$  $10^{4}$  $(x)^{\frac{1}{2}} 10^3$  $10^{2}$  $\longrightarrow$  fit input :  $E_{\nu}$ fit input :  $E_{\nu}$ baseline baseline  $10^{1}$ - fit input :  $E_h$ •••• fit input :  $\theta$ - fit input :  $E_h$ •••• fit input :  $\theta$ - fit input :  $E_{\ell}$ -- fit input :  $E_{\ell}$  $10^{0}$ 1.4 1.2 Ratio 0.1 0.8 0.6  $\begin{array}{c|c}
0.50 \\
\hline
0.25 \\
\hline
0.00
\end{array}$   $\begin{array}{c|c}
0.50 \\
\hline
0.00
\end{array}$ 0.50 $10^{-1}$  $10^{-1}$  $10^{0}$ 

 $x_{\nu}$ 

 $10^{6}$ 

 $10^{5}$ 

 $10^{4}$ 

 $10^{2}$ 

 $10^{1}$ 

 $10^{0}$ 

1.4

1.2

0.8

0.6

0.50 To 0.25 0.00 0.00

0.25 -

 $x_{\nu}$ 

Ratio 0.1

 $\int_{\mu}^{\pi} \int_{\mu}^{\pi} \int_{\mu$