Introduction

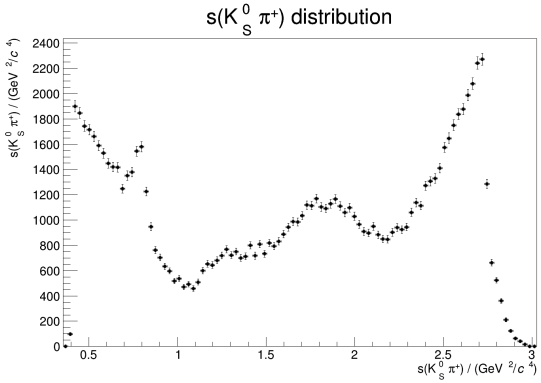
We perform a “Self Fit” for two particular models (“myBelle” and “timBelle”). The purpose of this is to establish a “baseline” fit for a given model.

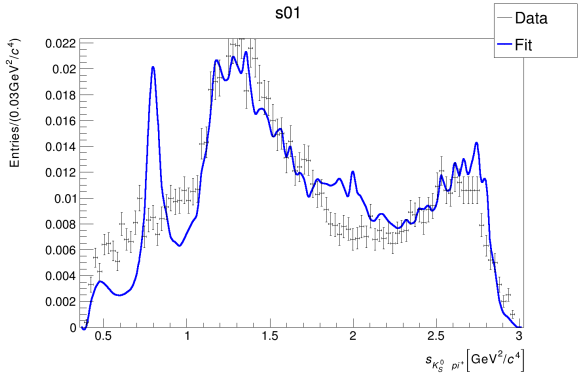
Procedure

The "SelfFit" Procedure is

- Generate a toy MC sample, $\mathcal{G}$ from a given model, $\mathcal{M}$
- Fit $\mathcal{G}$ using the same model, $\mathcal{M}$ and obtain a "fitted" model, $\mathcal{M}'$
- Regenerate another toy sample, $\mathcal{G}'$ from this "new" model, $\mathcal{M}'$

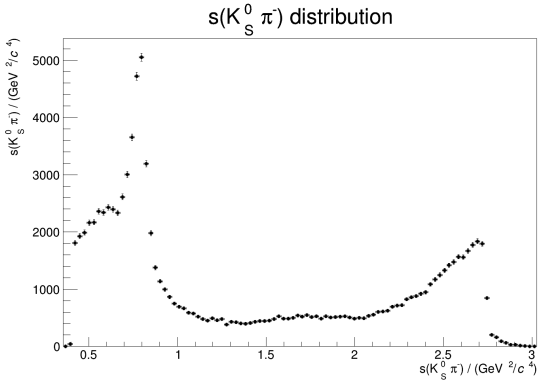
m^2_+ for Belle Model (Tim)

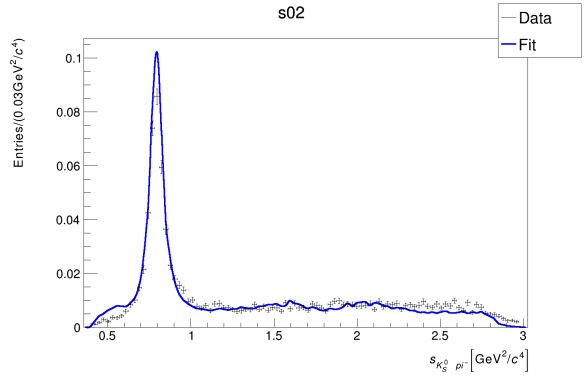




Left "Regenerated Model", right "Original Model (with fit line)"

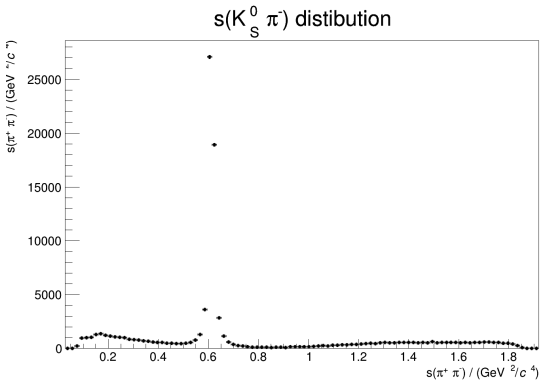
m^2_- for Belle Model (Tim)

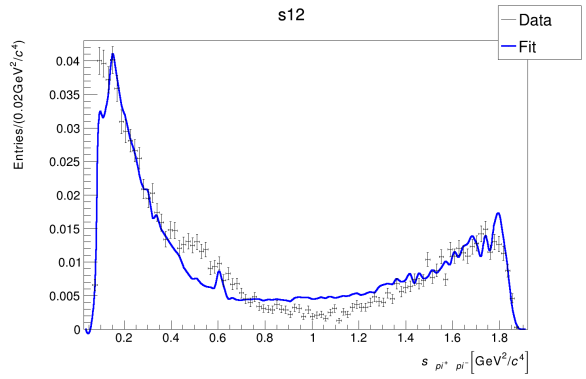




Left "Regenerated Model", right "Original Model (with fit line)"

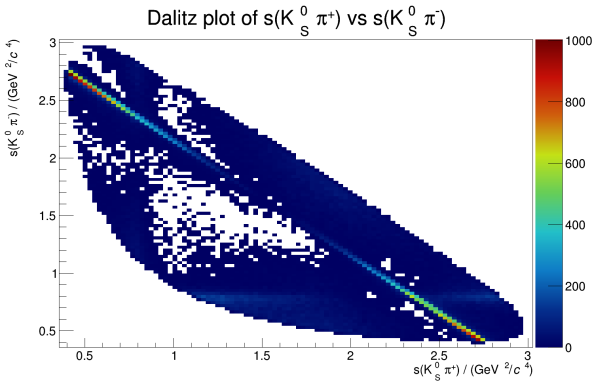
m_0^2 for Belle Model (Tim)

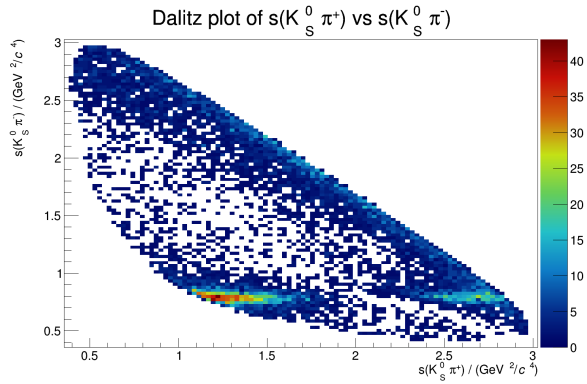




Left "Regenerated Model", right "Original Model (with fit line)"

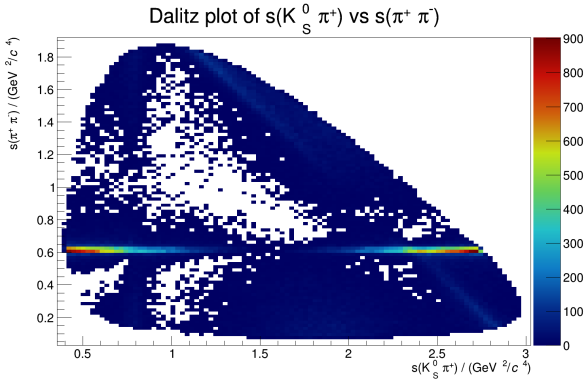
m^2_+ vs m^2_- for Belle Model (Tim)

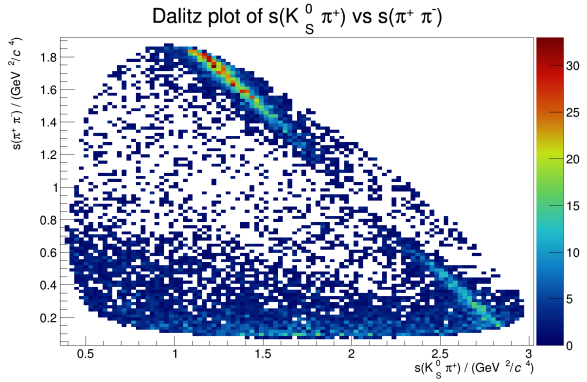




Left "Regenerated", right "Original"

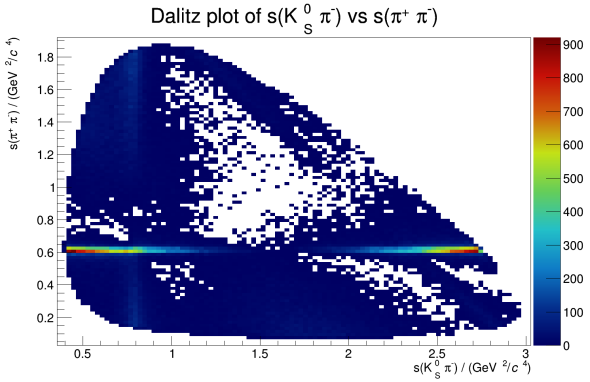
m_+^2 vs m_0^2 for Belle Model (Tim)

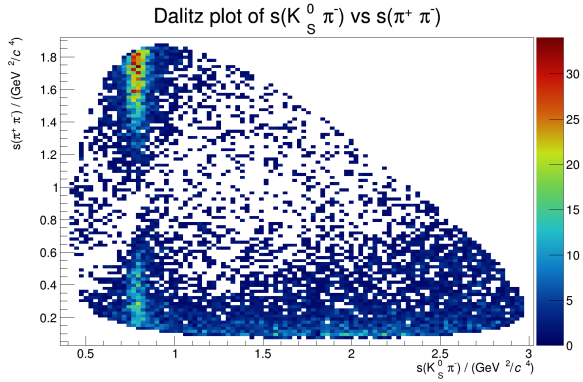




Left "Regenerated", right "Original"

m^2_- vs m^2_0 for Belle Model (Tim)





Left "Regenerated", right "Original"