



$D_s$  correction

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Splot

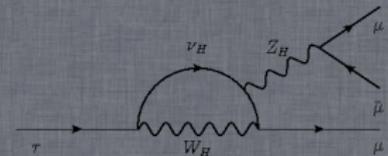
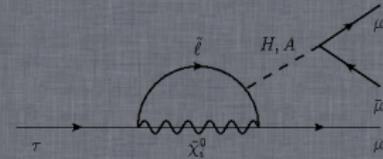
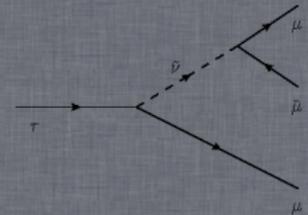
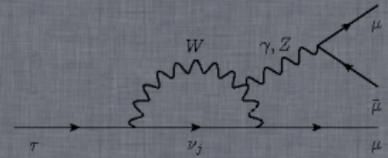
Splot

Isolation parameter

Isolation parameter

Stripping lines

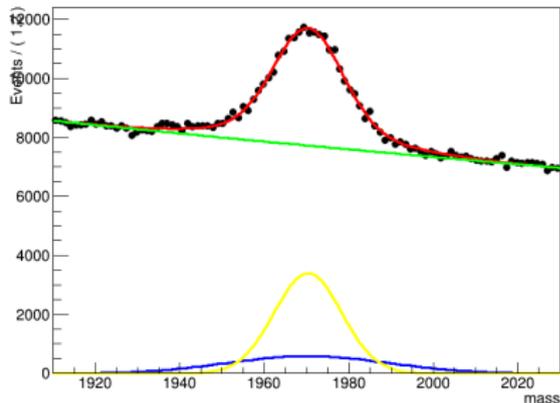
Stripping lines



# $D_S$ correction

Fit  $D_S \rightarrow \phi(\mu\mu)\pi$  in data.

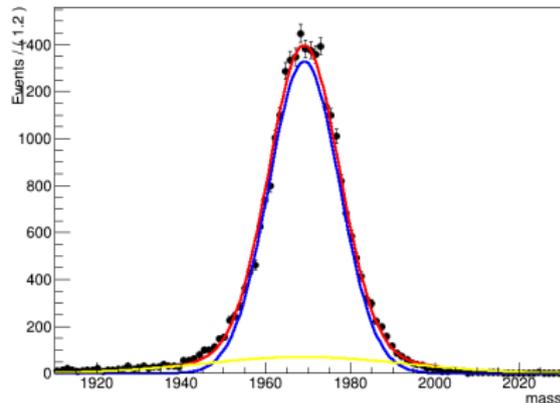
A RooPlot of "mass"



• mean =  $1970.3 \pm 0.9 \text{ MeV}$

Fit  $D_S \rightarrow \phi(\mu\mu)\pi$  in MC.

A RooPlot of "mass"



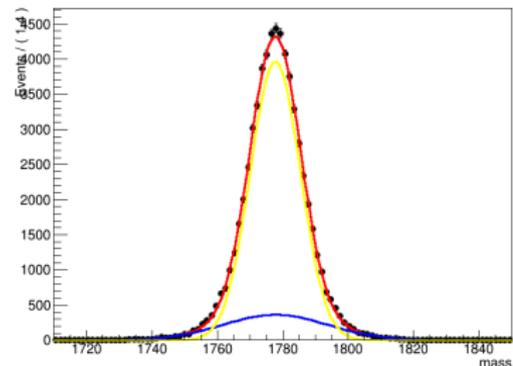
• mean =  $1969.1 \pm 0.60 \text{ MeV}$

# $D_s$ correction

- $mean_{\tau \rightarrow 3\mu} = \frac{1970.3}{1969.1} \times 1777.7 = 1778.8 \text{ MeV}$

Fit  $\tau \rightarrow \mu\mu\mu$  in MC.

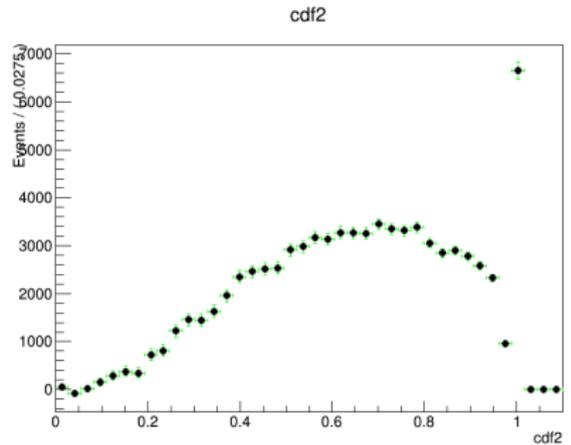
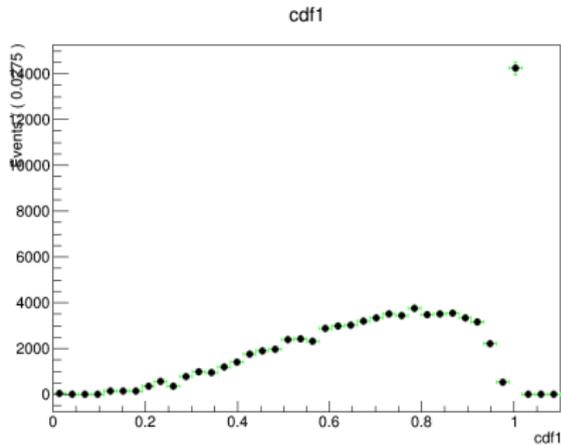
A RooPlot of "mass"



- $mean = 1777.7 \pm 0.4 \text{ MeV}$

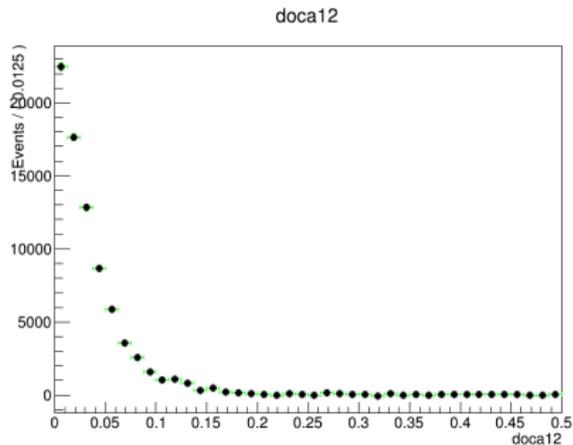
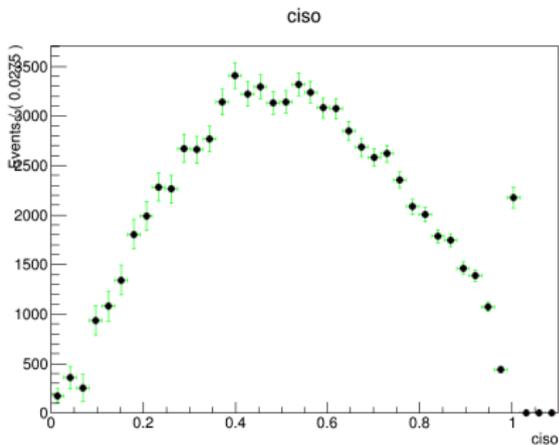
# Splot

I did Splot for our control channel:  $D_s \rightarrow \phi(\mu\mu)\pi$ .



# Splot

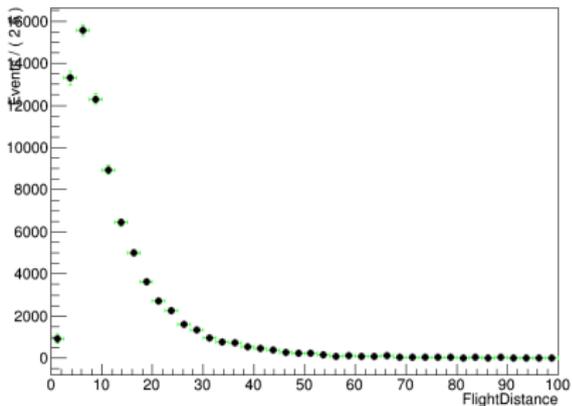
I did Splot for our control channel:  $D_s \rightarrow \phi(\mu\mu)\pi$ .



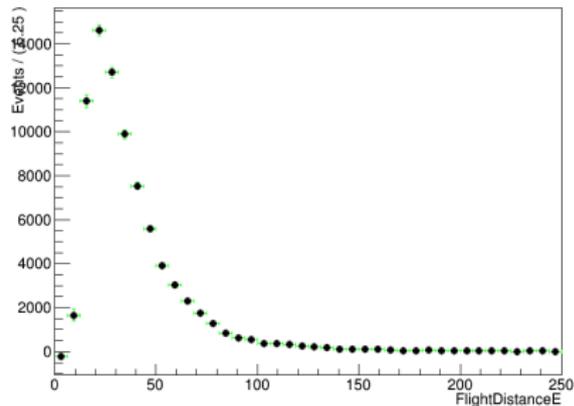
# Splot

I did Splot for our control channel:  $D_s \rightarrow \phi(\mu\mu)\pi$ .

FD



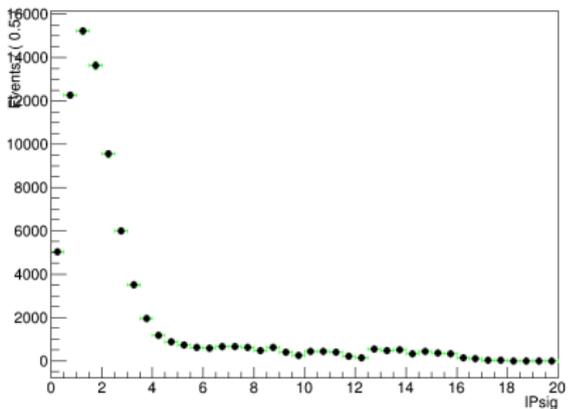
FDE



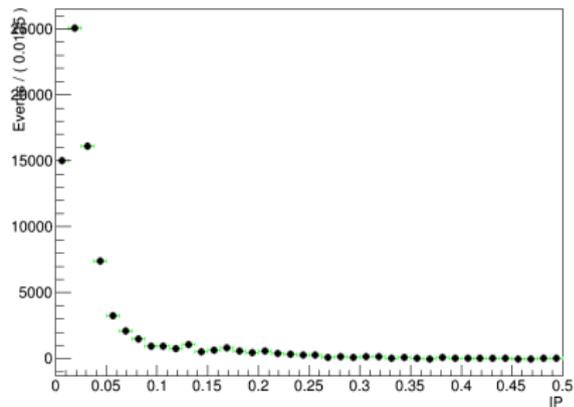
# Splot

I did Splot for our control channel:  $D_s \rightarrow \phi(\mu\mu)\pi$ .

IPsig

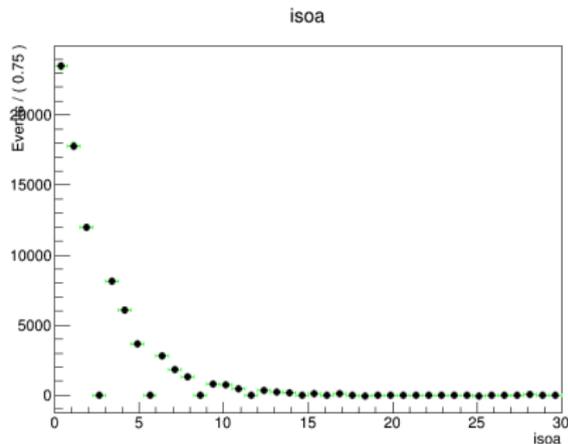
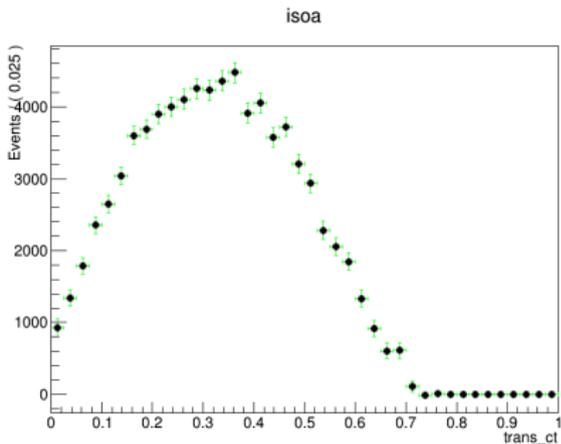


IPv



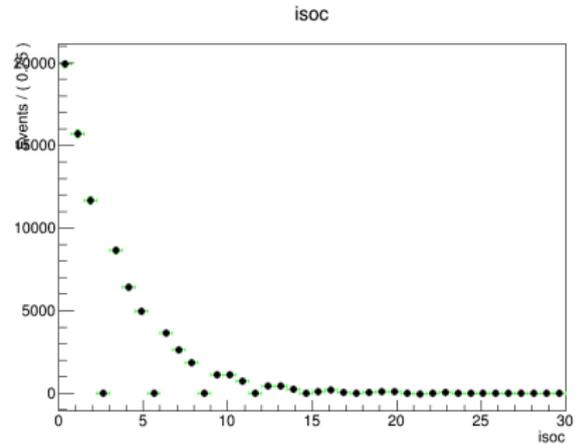
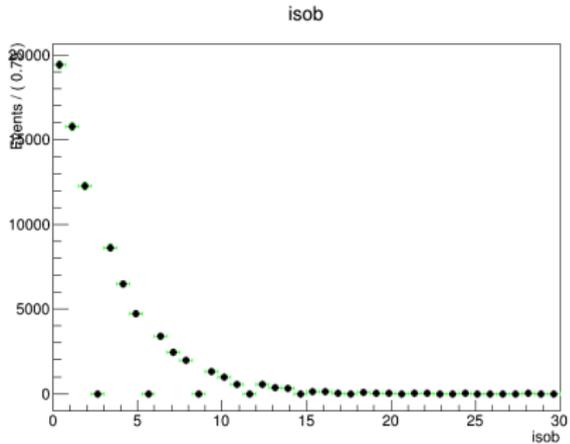
# Splot

I did Splot for our control channel:  $D_s \rightarrow \phi(\mu\mu)\pi$ .



# Splot

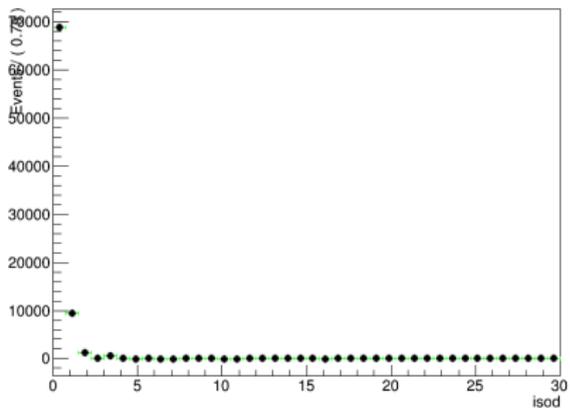
I did Splot for our control channel:  $D_s \rightarrow \phi(\mu\mu)\pi$ .



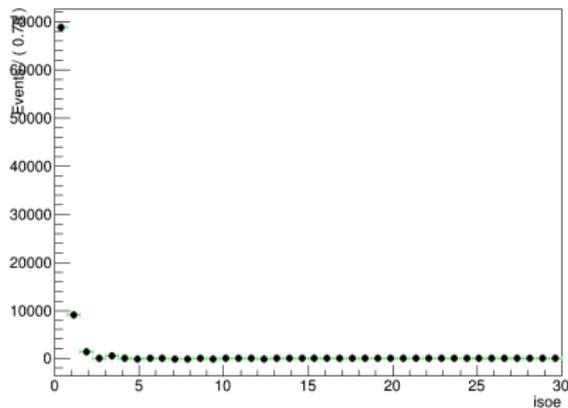
# Splot

I did Splot for our control channel:  $D_s \rightarrow \phi(\mu\mu)\pi$ .

isod



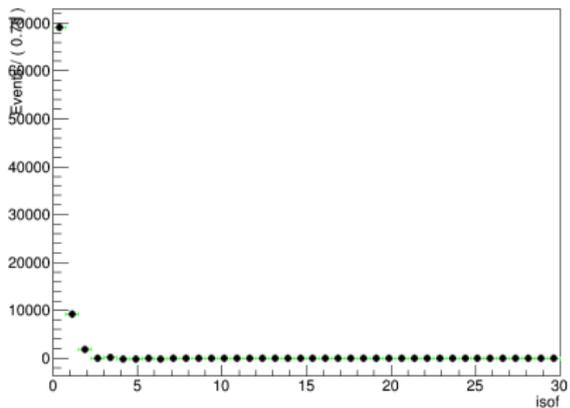
isoe



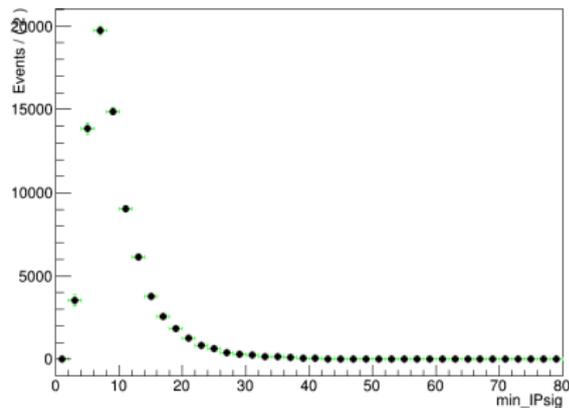
# Splot

I did Splot for our control channel:  $D_s \rightarrow \phi(\mu\mu)\pi$ .

isof



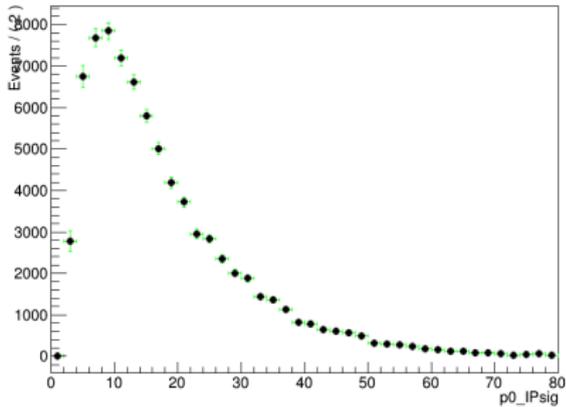
min\_IPsig



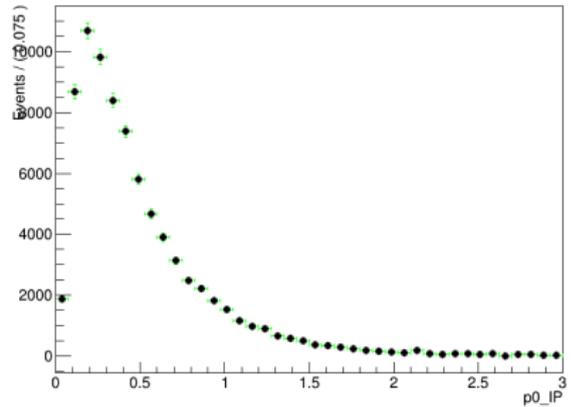
# Splot

I did Splot for our control channel:  $D_s \rightarrow \phi(\mu\mu)\pi$ .

p0\_IPsig



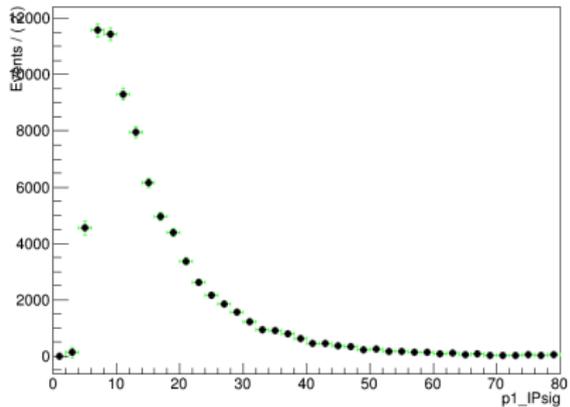
p0\_IPv



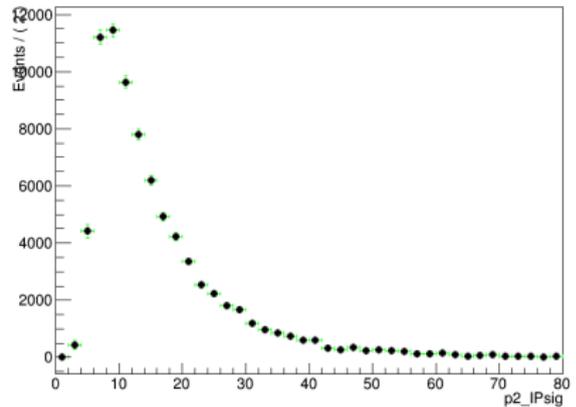
# Splot

I did Splot for our control channel:  $D_s \rightarrow \phi(\mu\mu)\pi$ .

p1\_IPsig

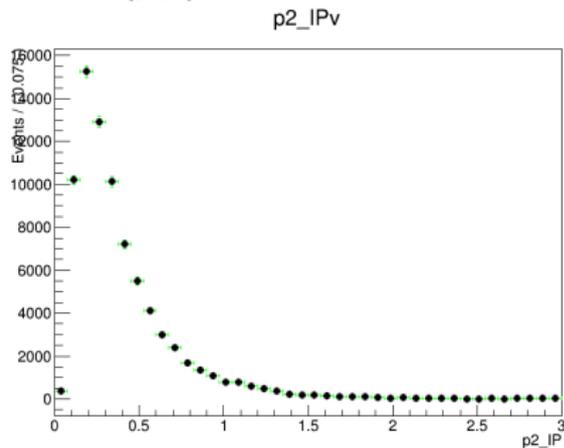
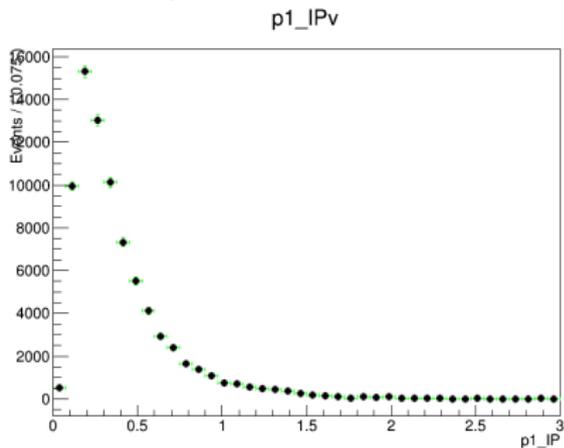


p2\_IPsig



# Splot

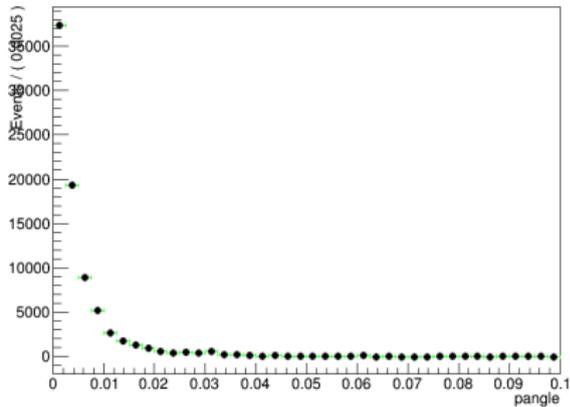
I did Splot for our control channel:  $D_s \rightarrow \phi(\mu\mu)\pi$ .



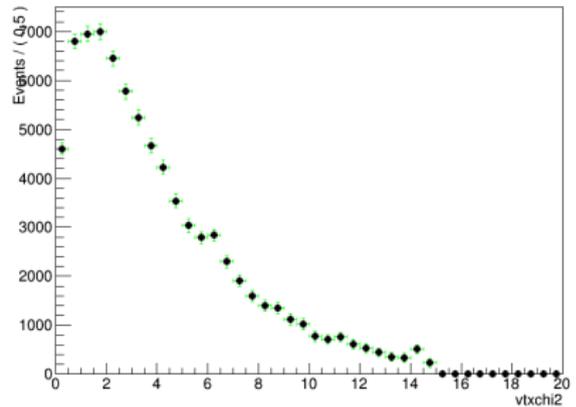
# Splot

I did Splot for our control channel:  $D_s \rightarrow \phi(\mu\mu)\pi$ .

paghle

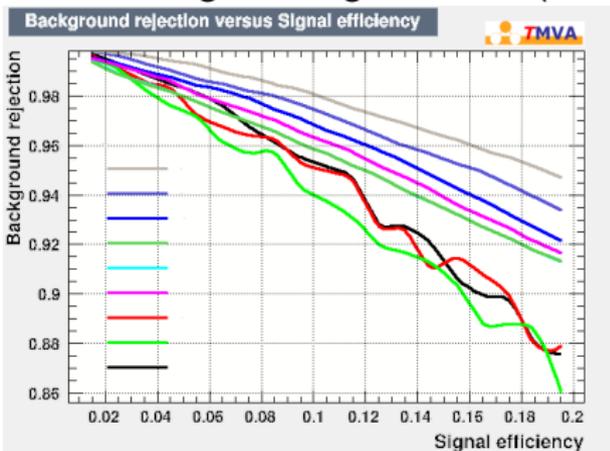


vtxchi2

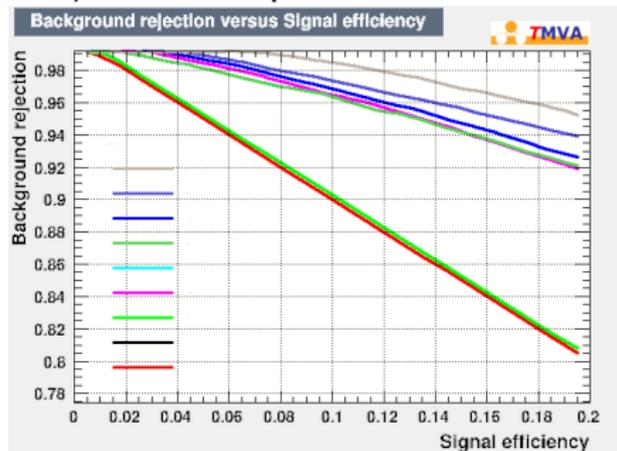


# Isolation parameter

I managed to make small improvement on the isolation parameter, restricting it to higher mass ( $M > 5\text{GeV}$ ). Small improvement.



I consider Isolation for  $K^* \mu\mu$  fixed.



# Stripping lines

Last week i made changes to the inflaton stripping line and added  $B^0 \rightarrow K^* \pi \pi$  line for calibration of  $K^* \mu \mu$   
TOTAL FAILURE.



EPIC FAIL

If you're going to f\*ck up anyway, you might as well f\*ck up in such a way that it leaves people wondering how that f\*ck you did that!!

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