

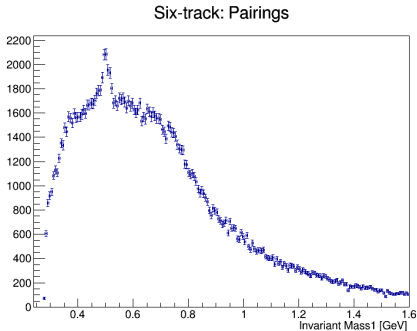


# Six tracks - continued

Rasmus Staugaard Thomsen

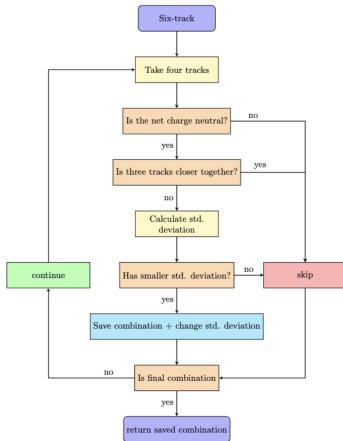
# Looking at two-masses:

- Try adding all mass combinations



- Kaon peak is visible
- Rho peak hides in the large background

# New Approach



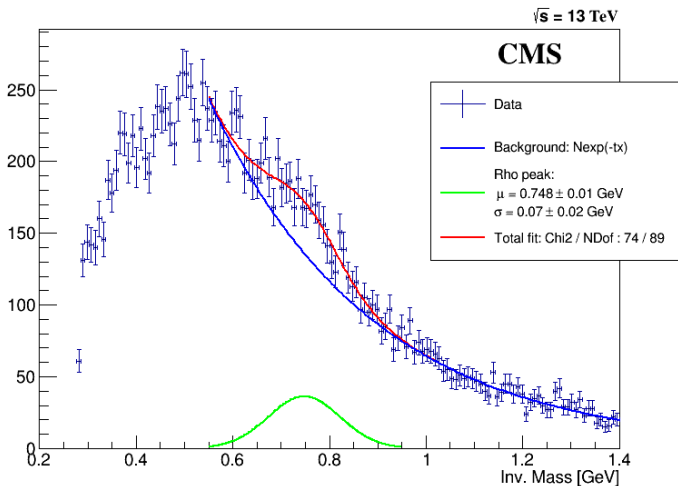
# Is three track closer - description

Main idea: Try to remove combinations, which looks like three-tracks

- Calculate the distance between all elements
- Sort them from lowest to highest
- See if the three smallest distances are smaller than the fourth smallest

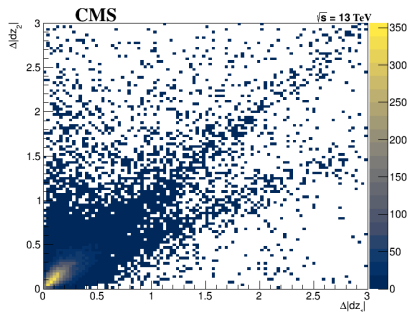
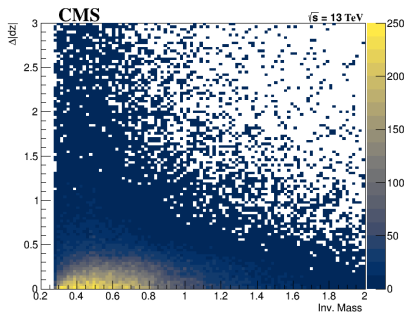


# Four track (both events):

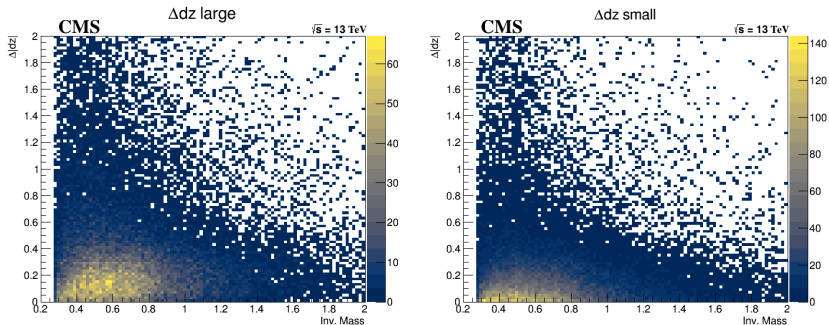


# Trying to chose right event

Try using dz as delimiter:

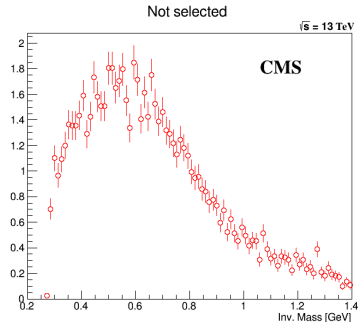
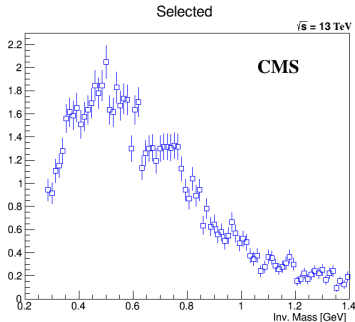


# Trying to chose right event



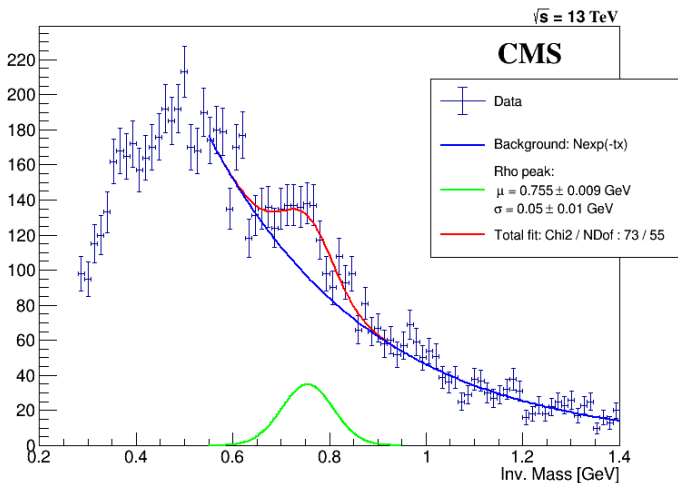


# Comparison

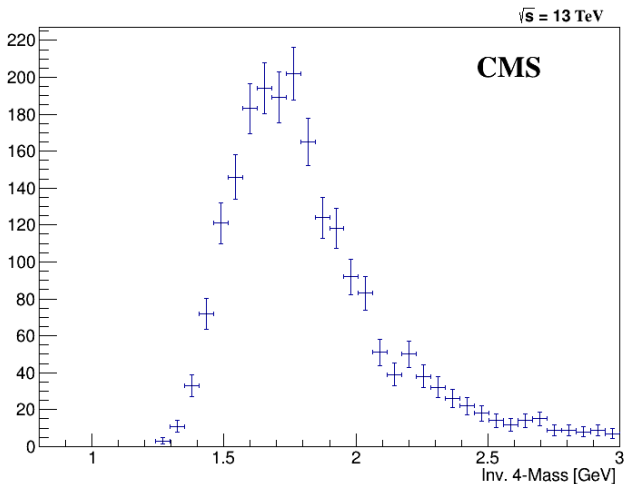


- Rho peak is more visible in  $\Delta|dz|$  small

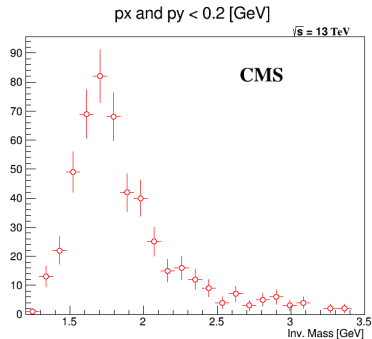
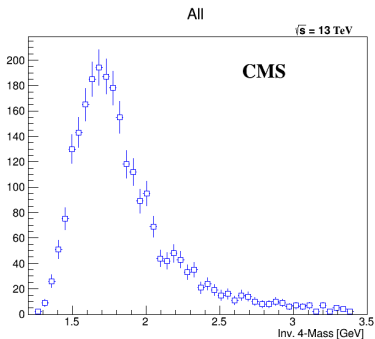
# Fit (one event):



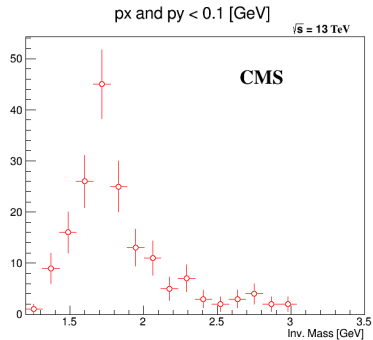
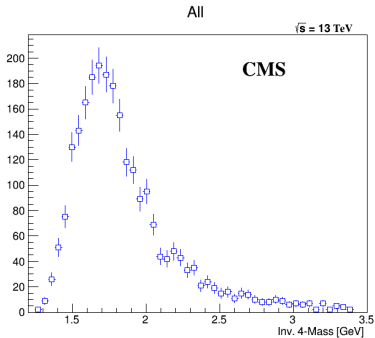
# Looking at fourmass



# Looking at fourmass



# Looking at fourmass



# Looking at fourmass

