

Kaons analysis of gen2 data

A. Scordo, LNF (INFN)

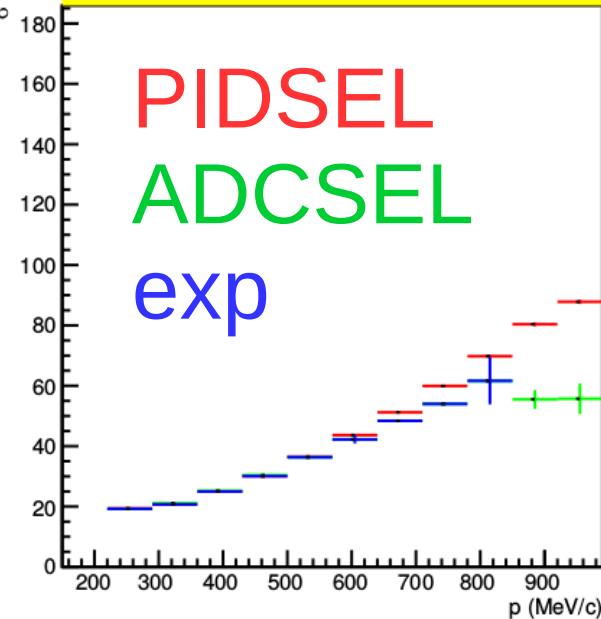
21/04/2016

Contents

- Mass and s comparison between PIDSEL & ADCSEL for gen2 (exp joana cuts)
- Fits on exp data with constraints from MC fits
- Common bin analysis for K+
- K-/K+ ratios

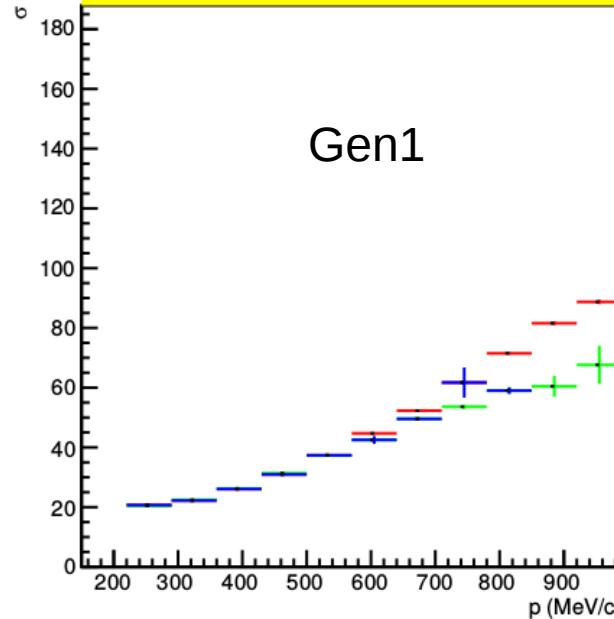
RPC Widths for $15.0 < \theta < 27.5$

PIDSEL
ADCSEL
exp

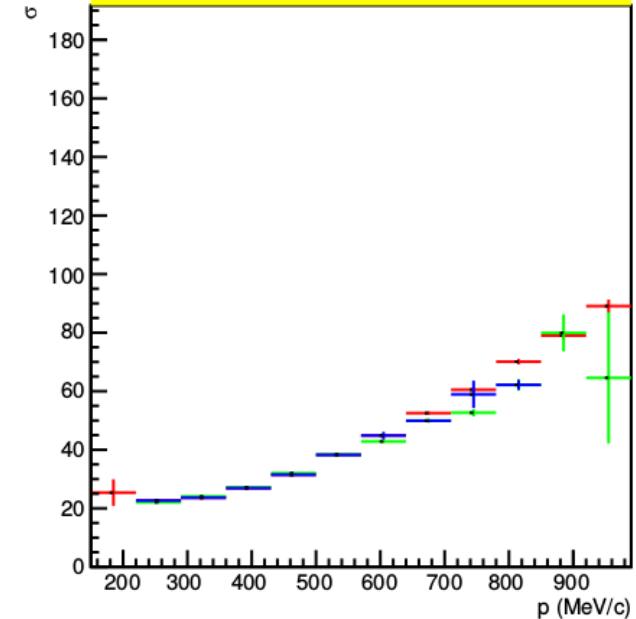


RPC Widths for $27.5 < \theta < 40.0$

Gen1

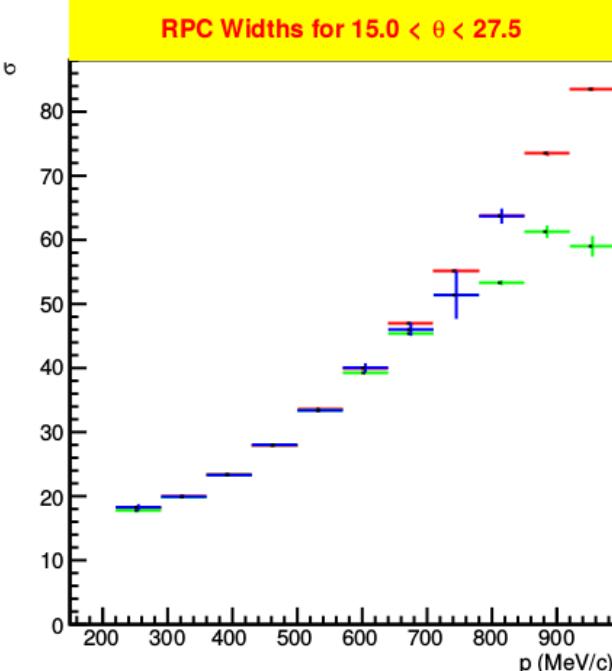


RPC Widths for $40.0 < \theta < 52.5$



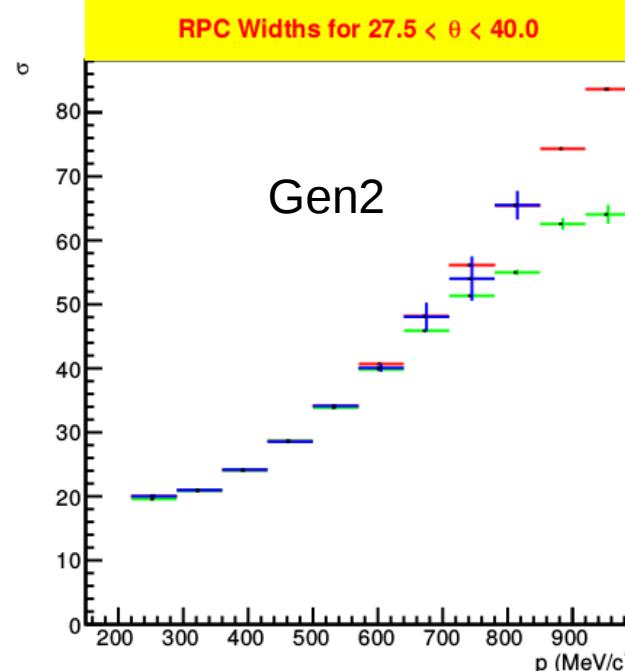
RPC Widths for $15.0 < \theta < 27.5$

Gen2

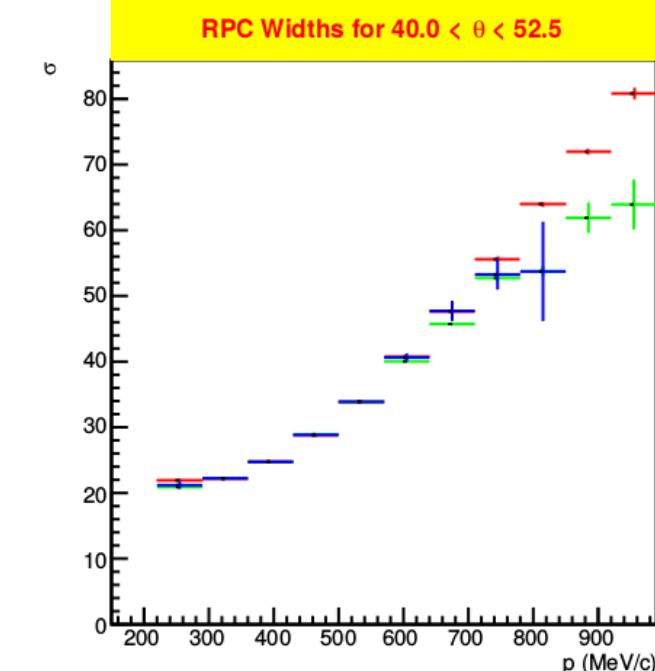


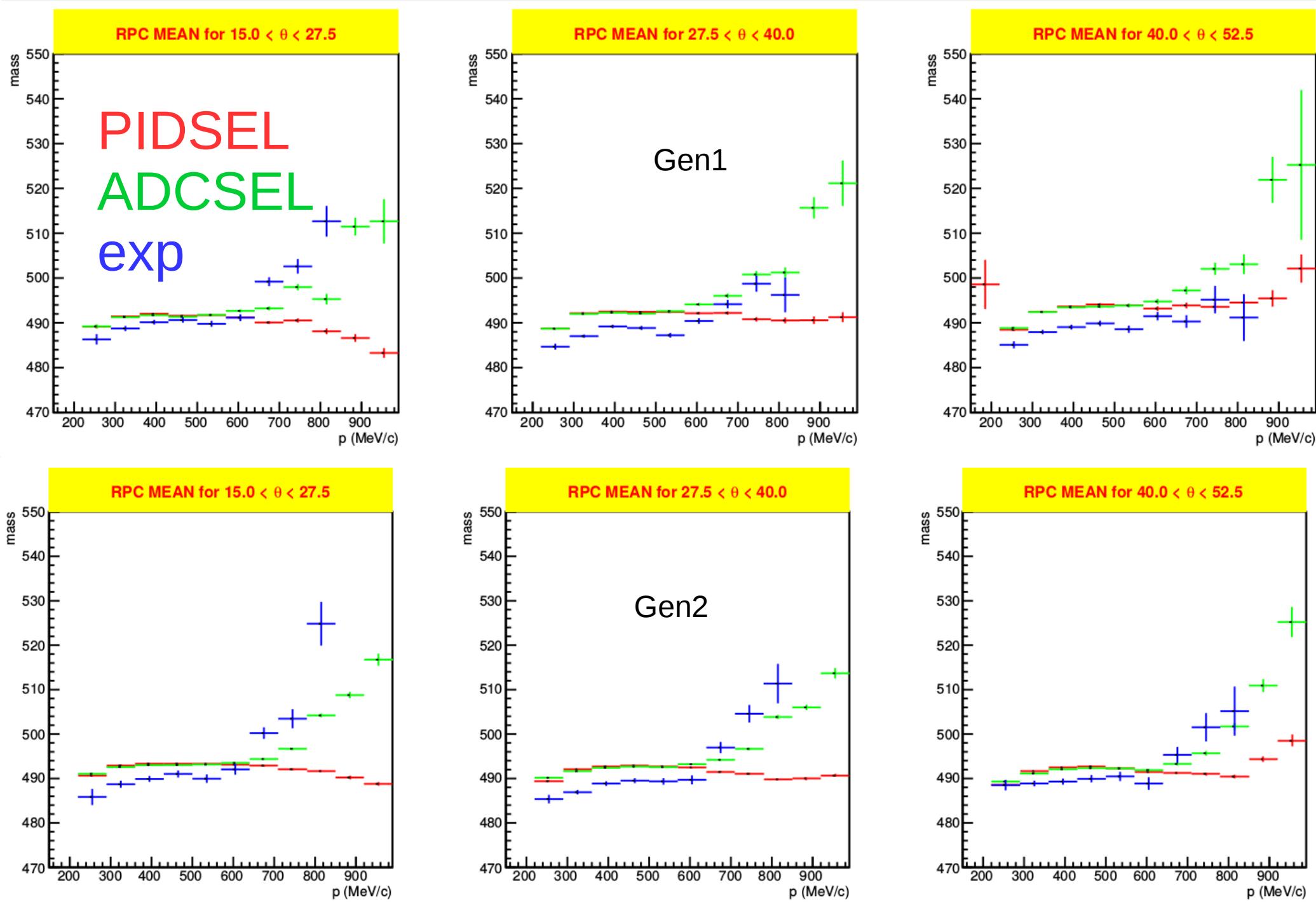
RPC Widths for $27.5 < \theta < 40.0$

Gen2



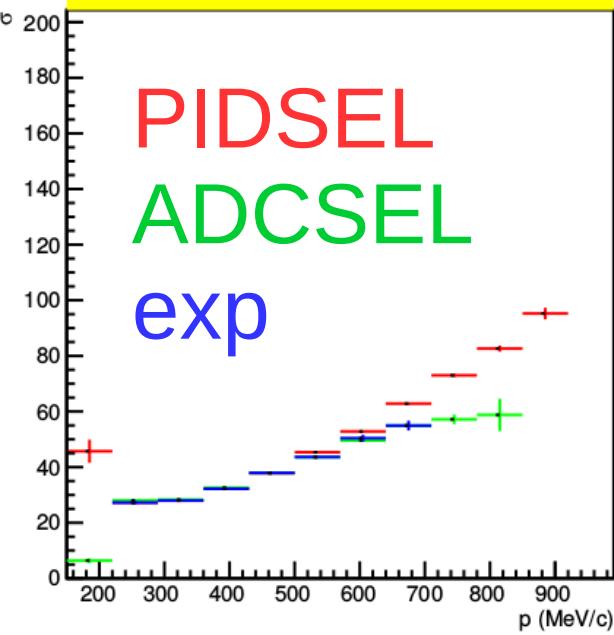
RPC Widths for $40.0 < \theta < 52.5$





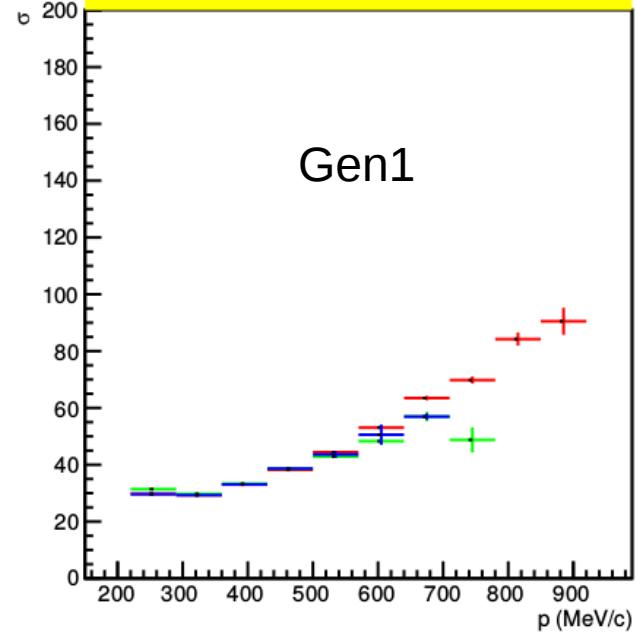
TOF Widths for $52.5 < \theta < 65.0$

PIDSEL
ADCSEL
exp

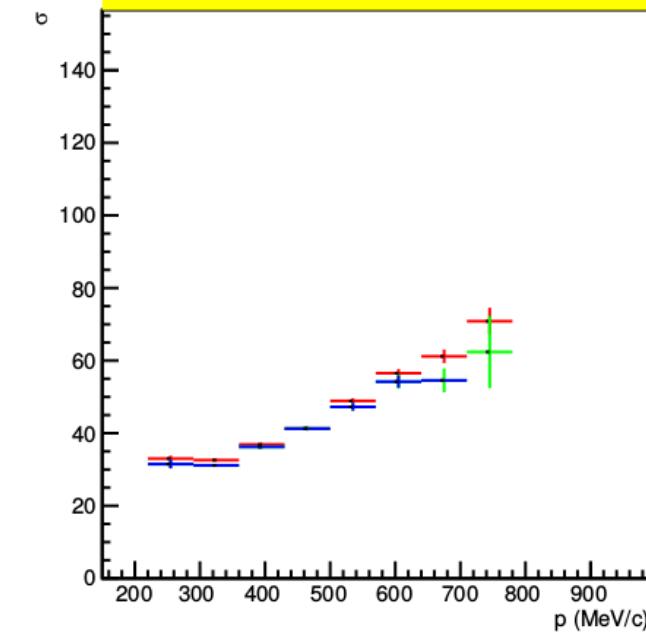


TOF Widths for $65.0 < \theta < 77.5$

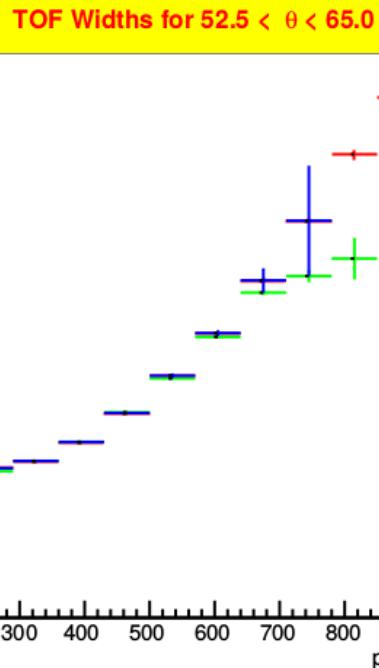
Gen1



TOF Widths for $77.5 < \theta < 90.0$

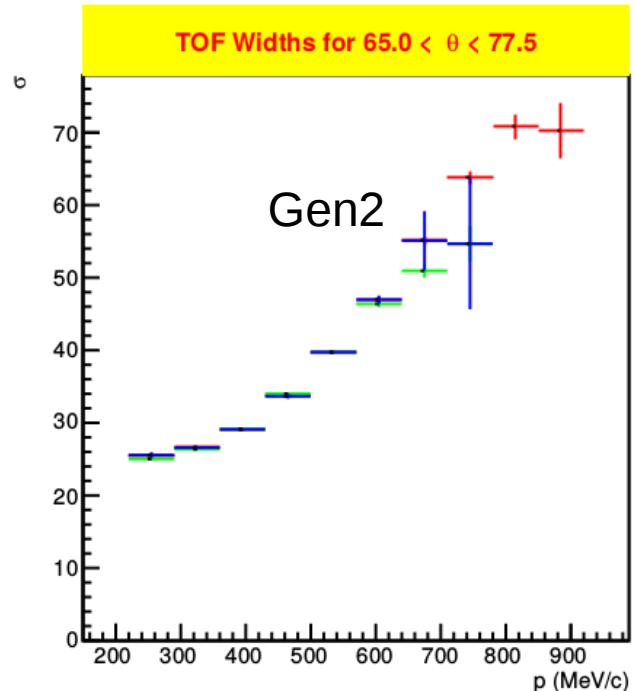


TOF Widths for $52.5 < \theta < 65.0$

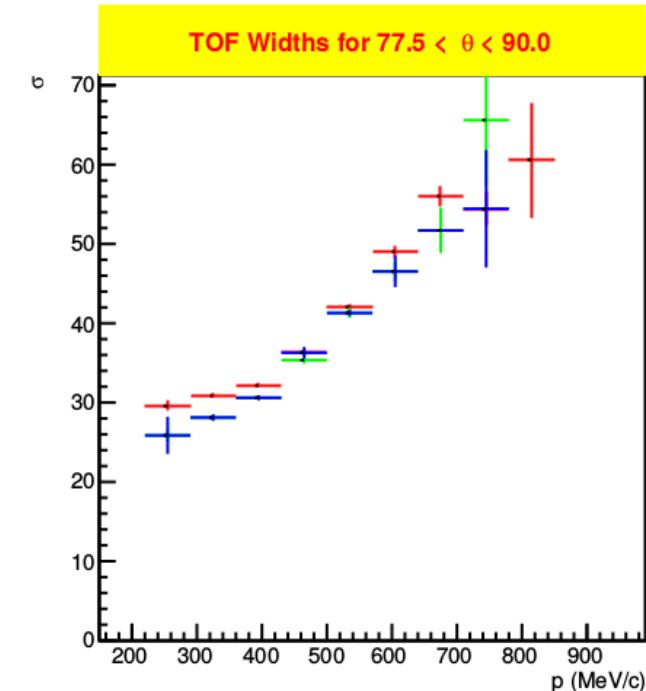


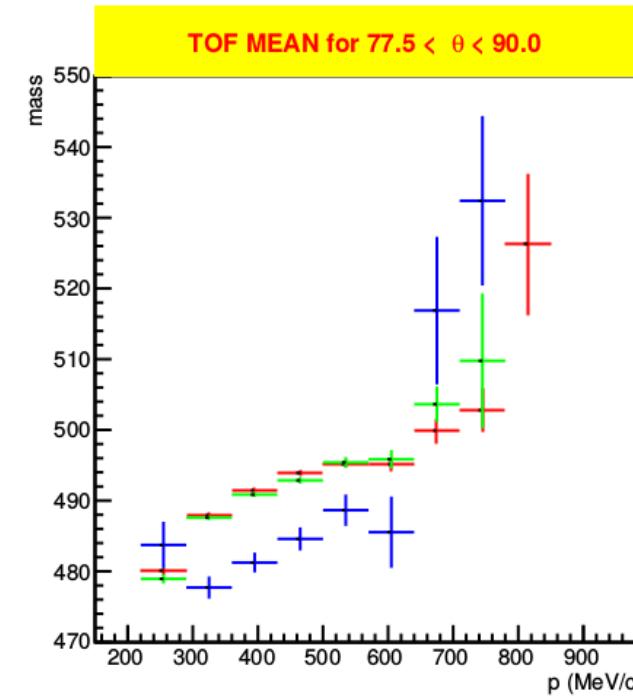
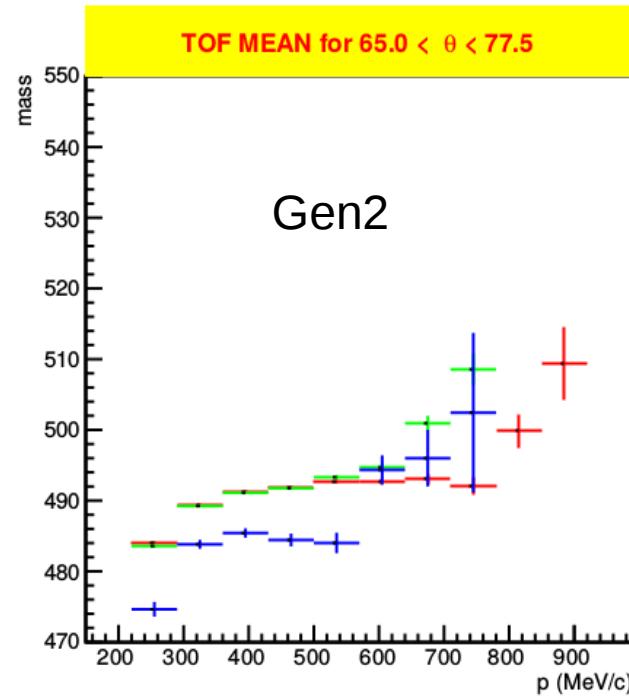
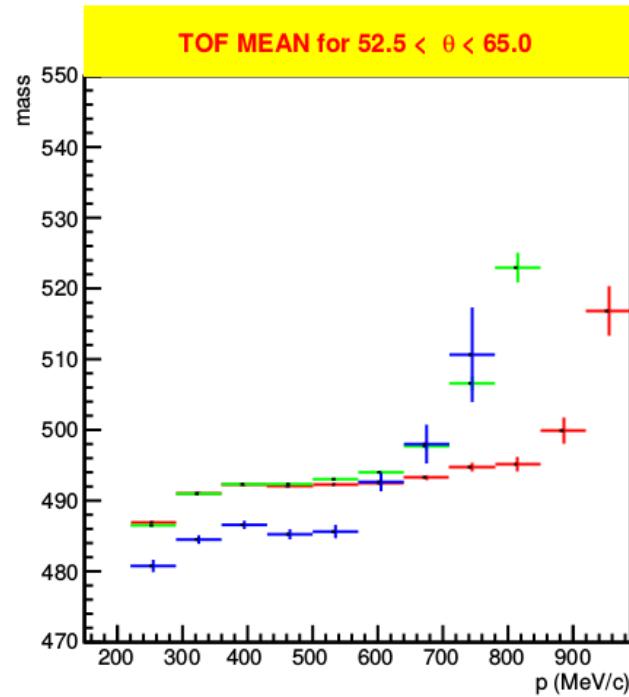
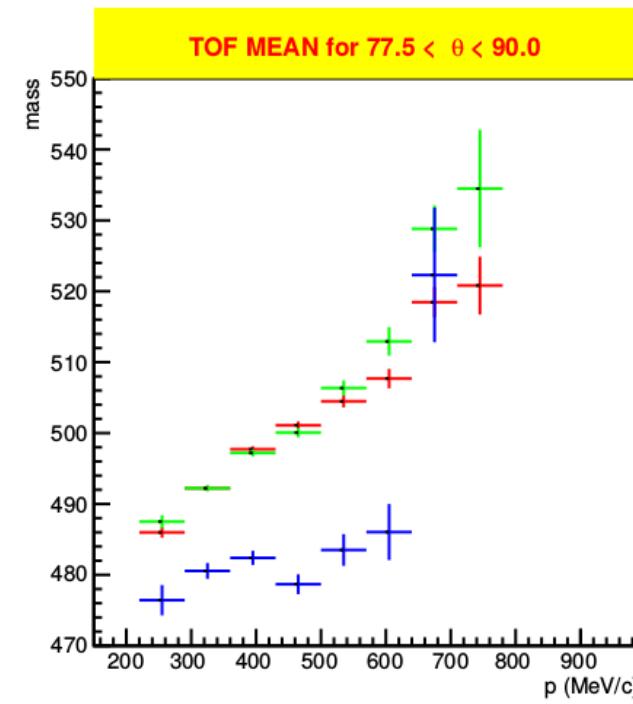
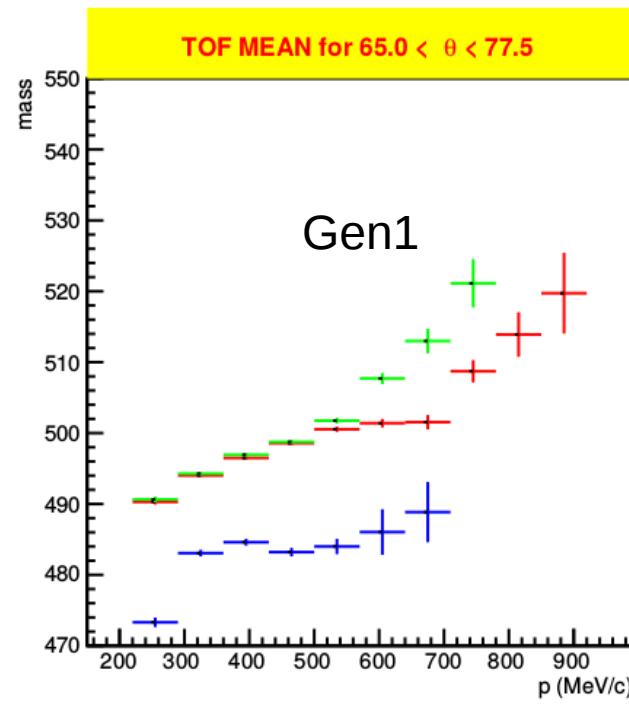
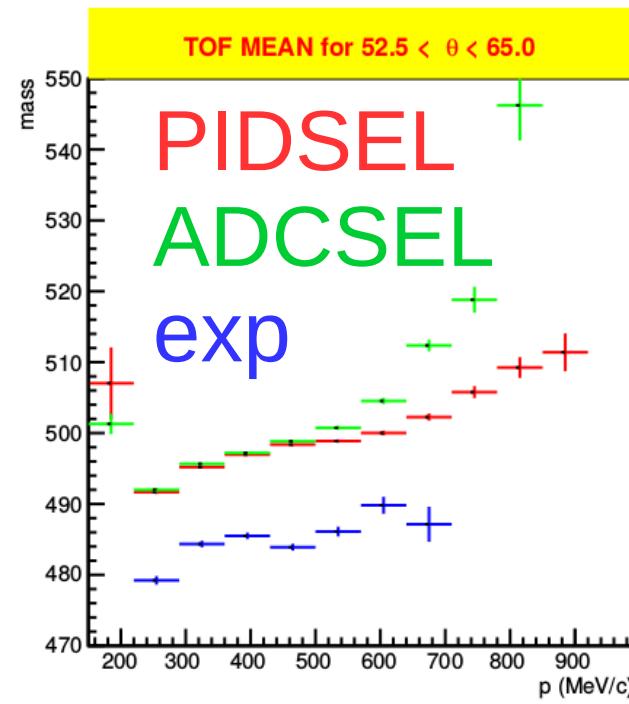
TOF Widths for $65.0 < \theta < 77.5$

Gen2

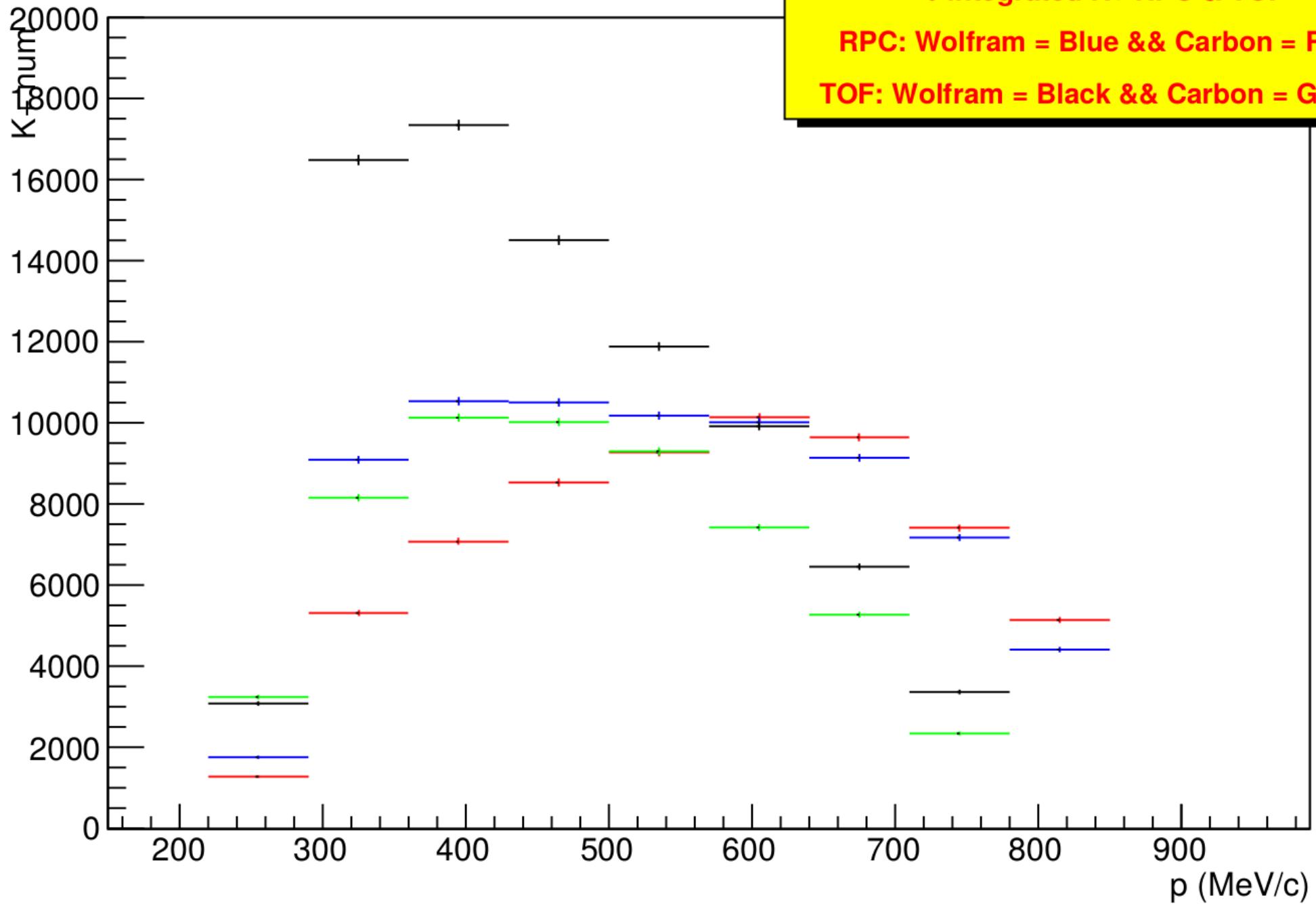


TOF Widths for $77.5 < \theta < 90.0$

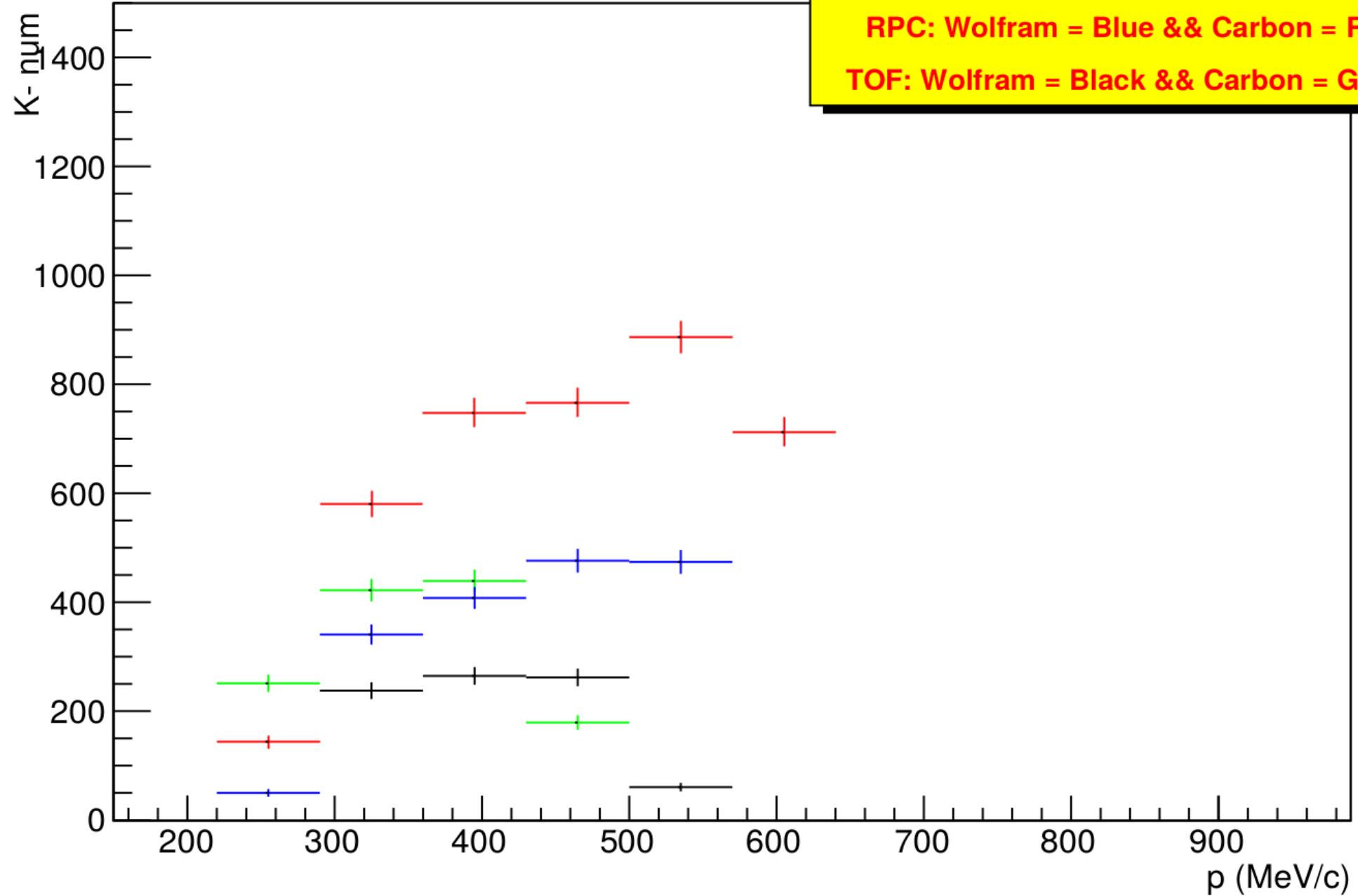


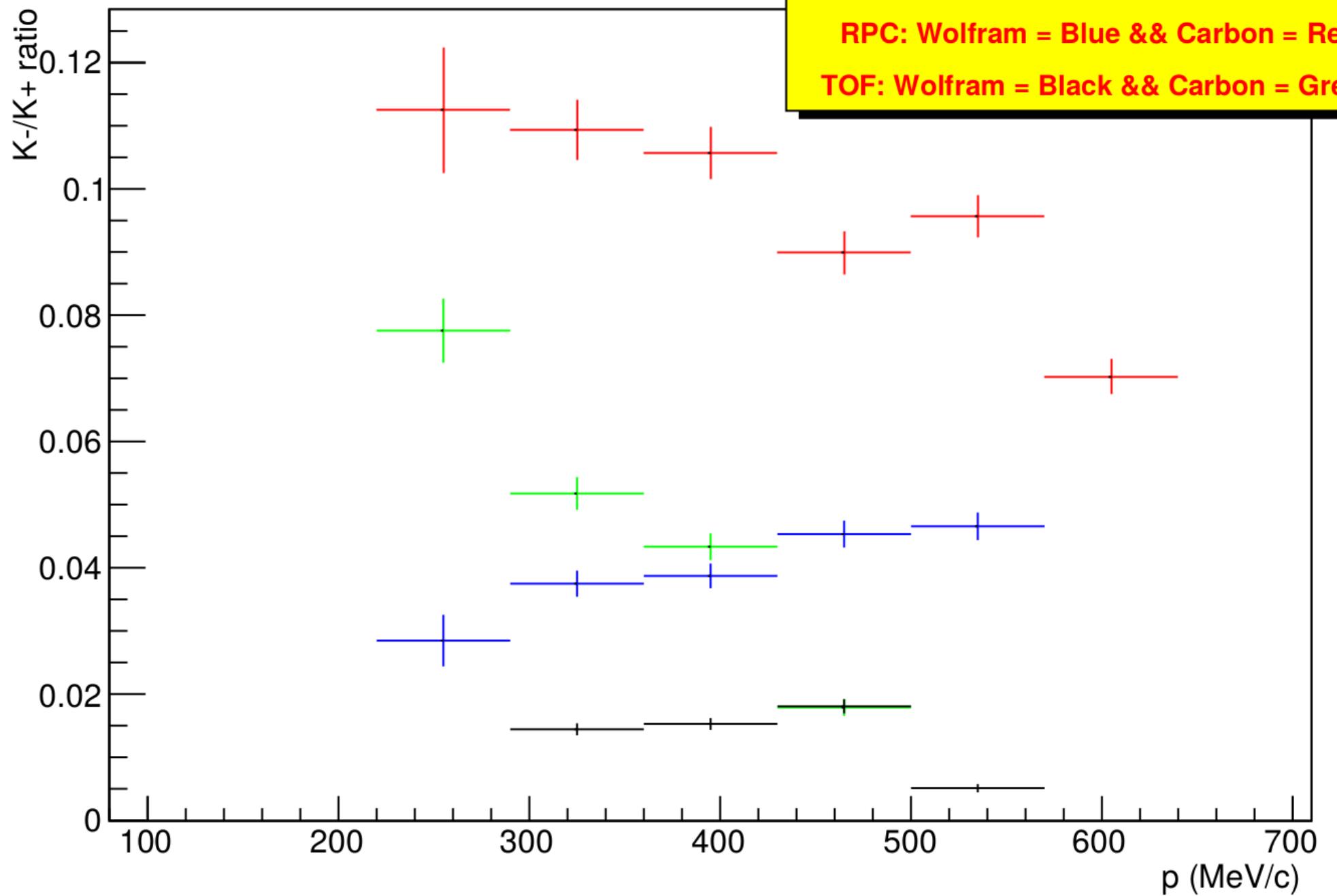


θ integrated K⁺ RPC & TOF
RPC: Wolfram = Blue && Carbon = Red
TOF: Wolfram = Black && Carbon = Green



θ integrated K- RPC & TOF
RPC: Wolfram = Blue && Carbon = Red
TOF: Wolfram = Black && Carbon = Green

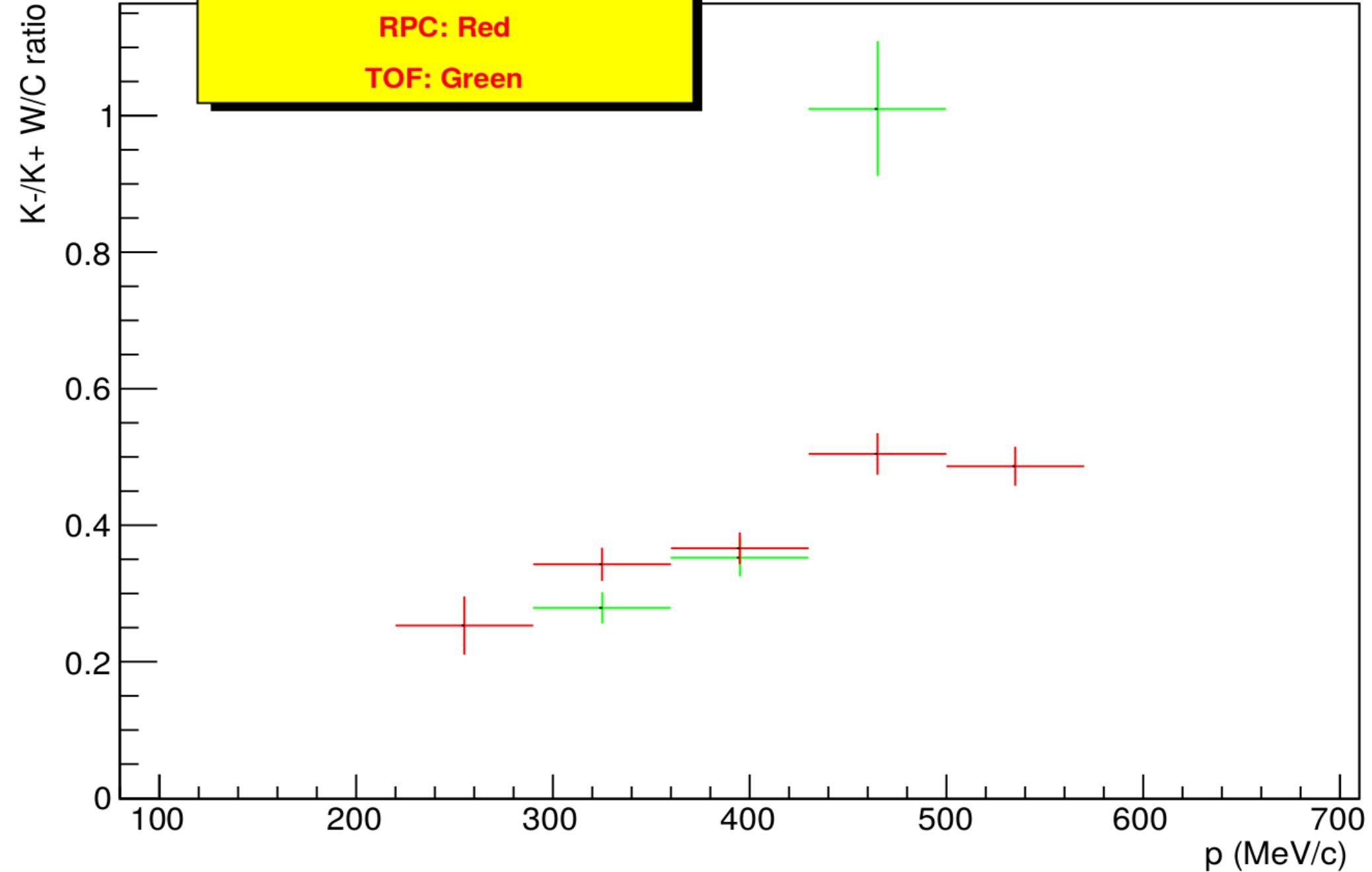




θ integrated K-/K+ W/C RPC & TOF

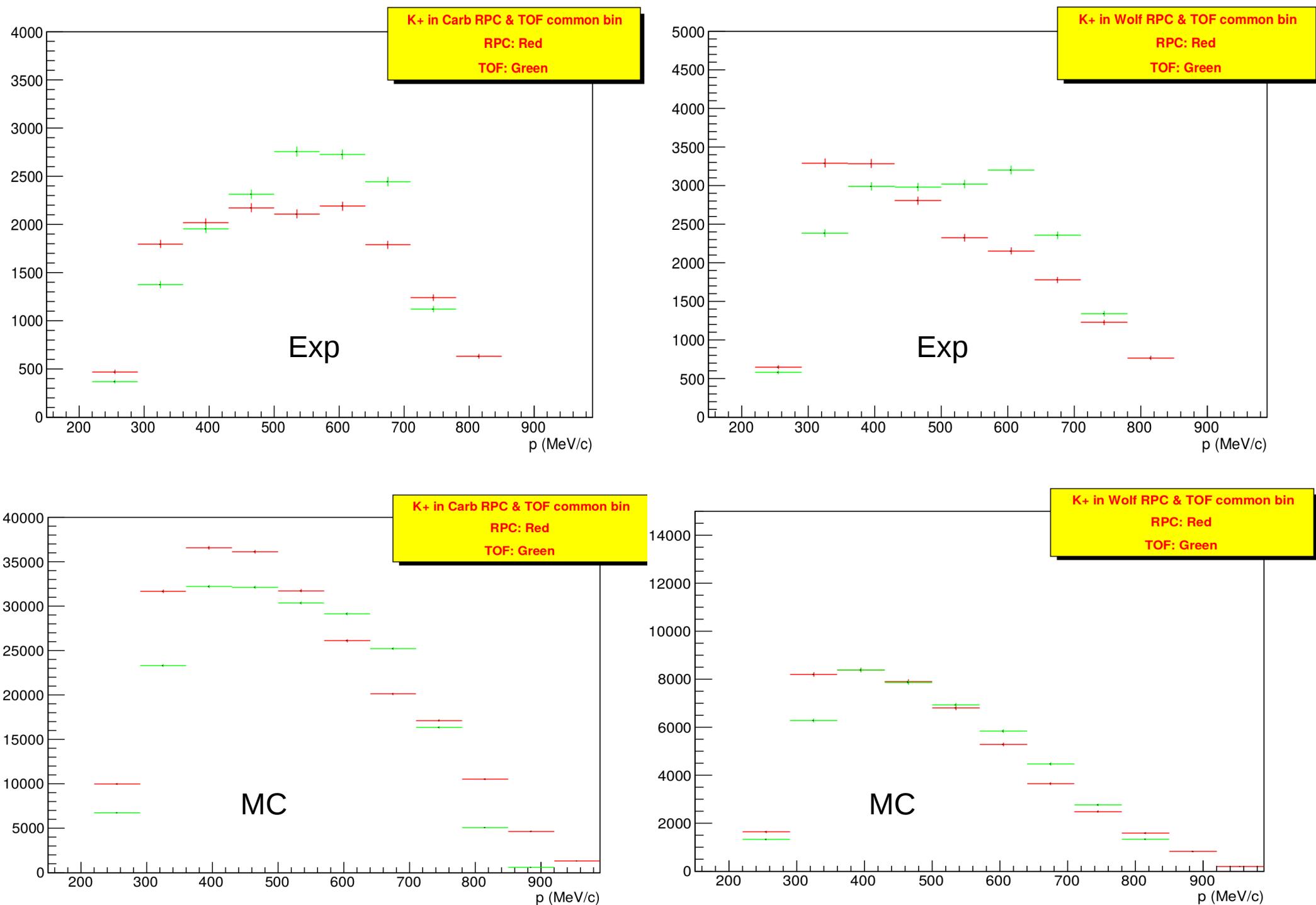
RPC: Red

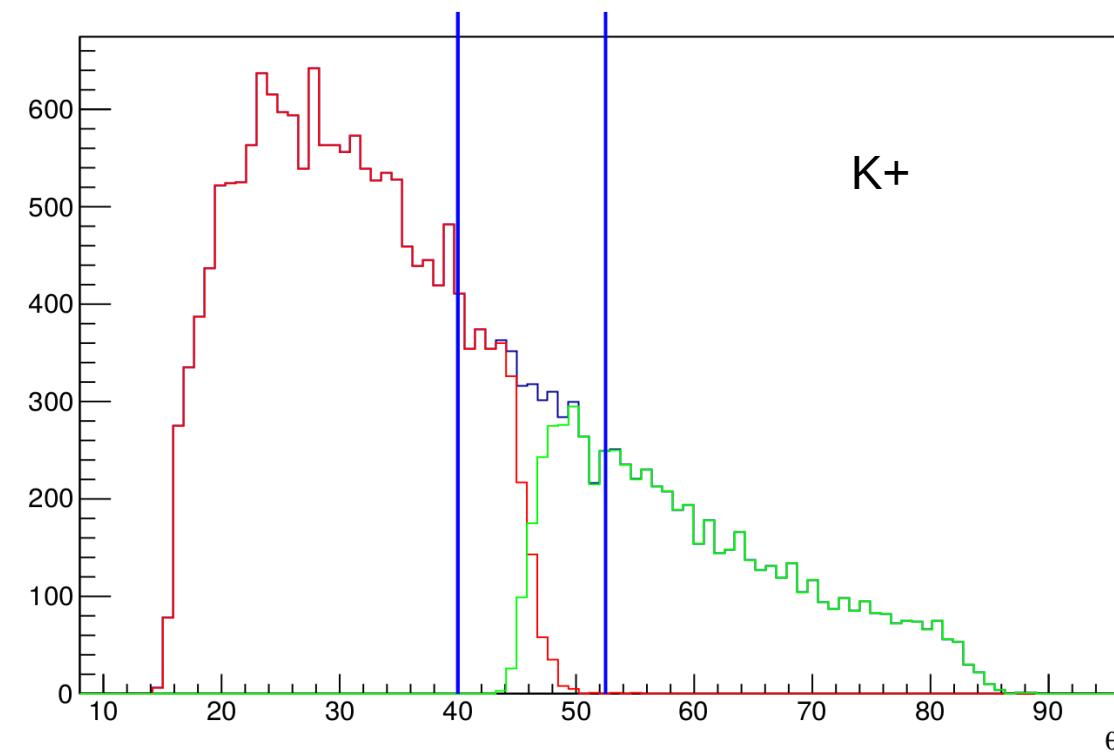
TOF: Green



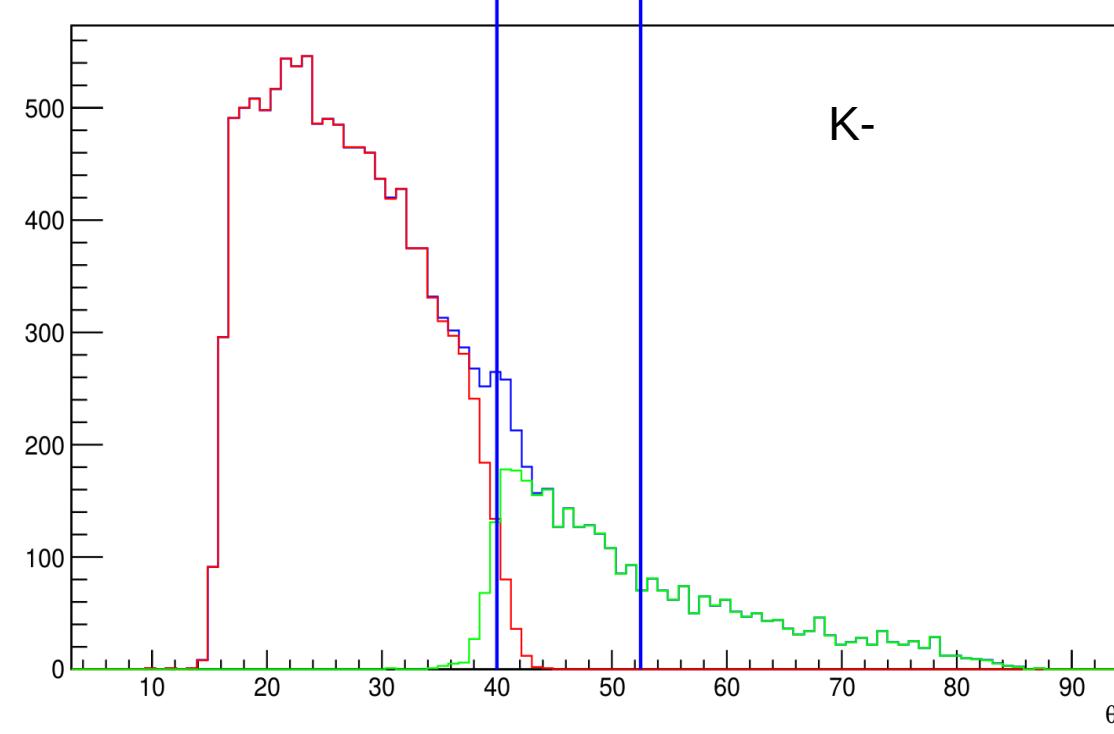
Idea: check if better results can be achieved by fitting only p-slices spectra

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Common bin for K^+ :
 $40 < \theta < 52.5$



Different for K^-
....input for efficiency correction???