

# RHRS Shower Calibration - Update

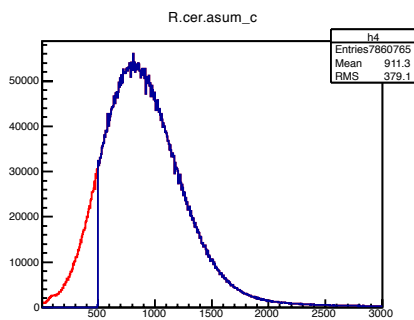
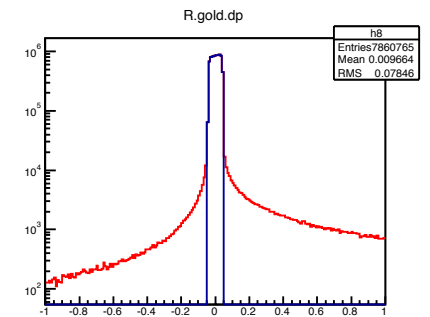
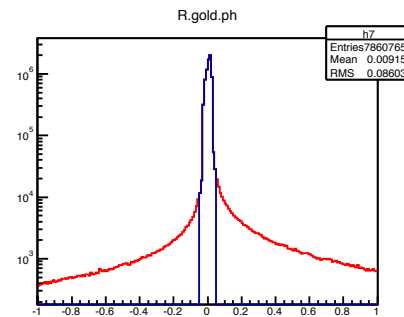
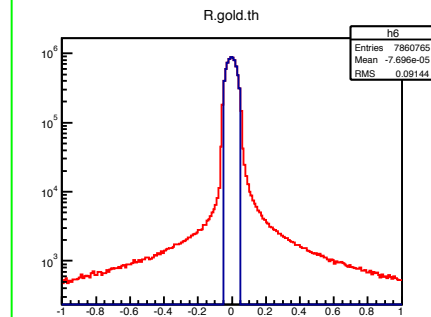
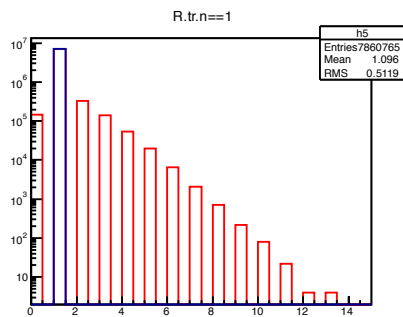
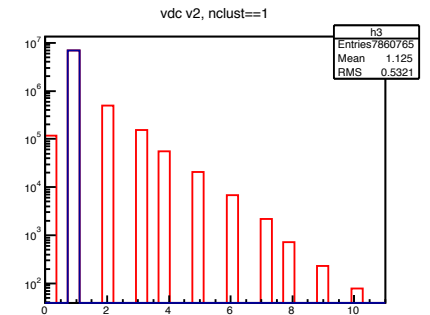
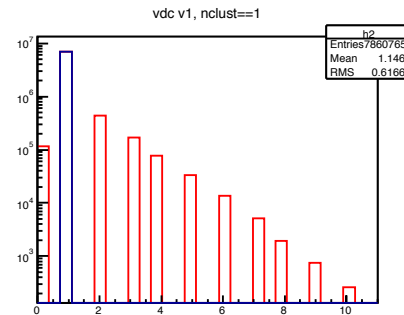
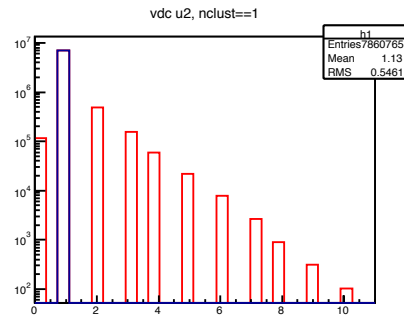
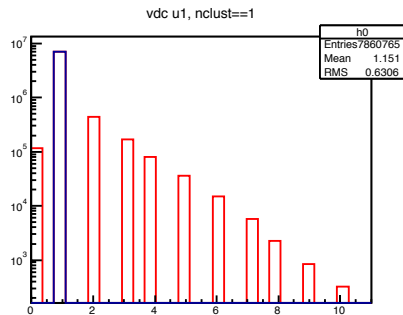
Melissa Cummings

09/25/12

# Issues Raised on 09/12/12

- Apply tighter cuts for electron selection
- Apply electron cuts to plot of  $E_{tot}/p$
- Fill in other momentum settings for stability check
- Determine new calibration for low momentum points
- Resolution

# Narrower Electron Cuts

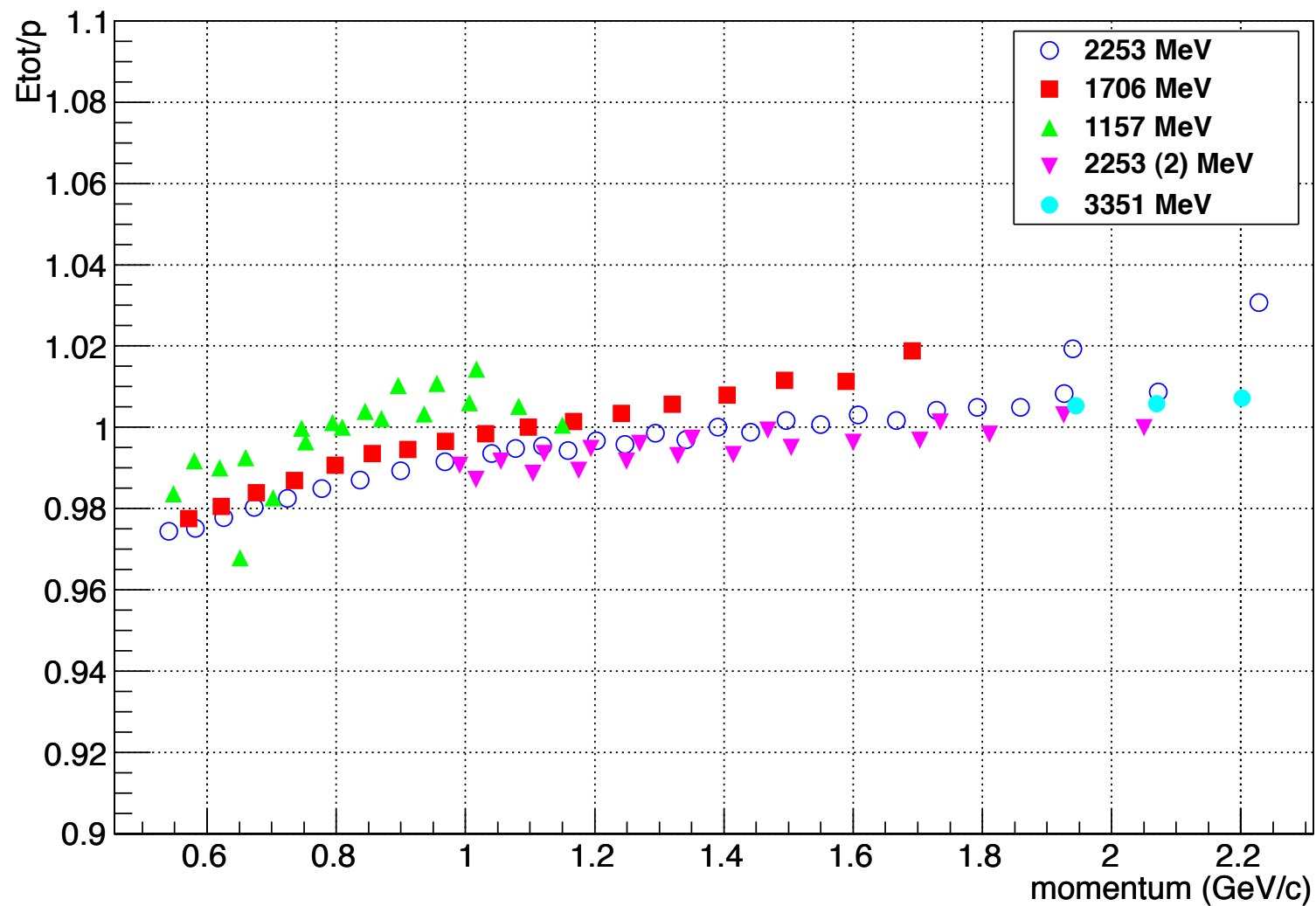


# Effect on Calibration & Plot of Etot/p

Etot/p --->		<b>calib. done with "loose" cuts</b>				<b>calib. done with "tight" cuts</b>			
		<i>no cuts</i>		<i>with cuts</i>		<i>no cuts</i>		<i>with cuts</i>	
<b>E</b>	<b>p0</b>	<b>mean</b>	<b>width</b>	<b>mean</b>	<b>width</b>	<b>mean</b>	<b>width</b>	<b>mean</b>	<b>width</b>
2253	1.792	1.00	0.050	1.01	0.049	1.00	0.050	1.00	0.049
1706	1.320	1.01	0.054	1.01	0.054	1.01	0.054	1.01	0.054
1157	0.845	1.00	0.063	1.01	0.062	1.01	0.063	1.00	0.062
3351	2.202	1.01	0.048	1.01	0.047	1.01	0.048	1.01	0.047

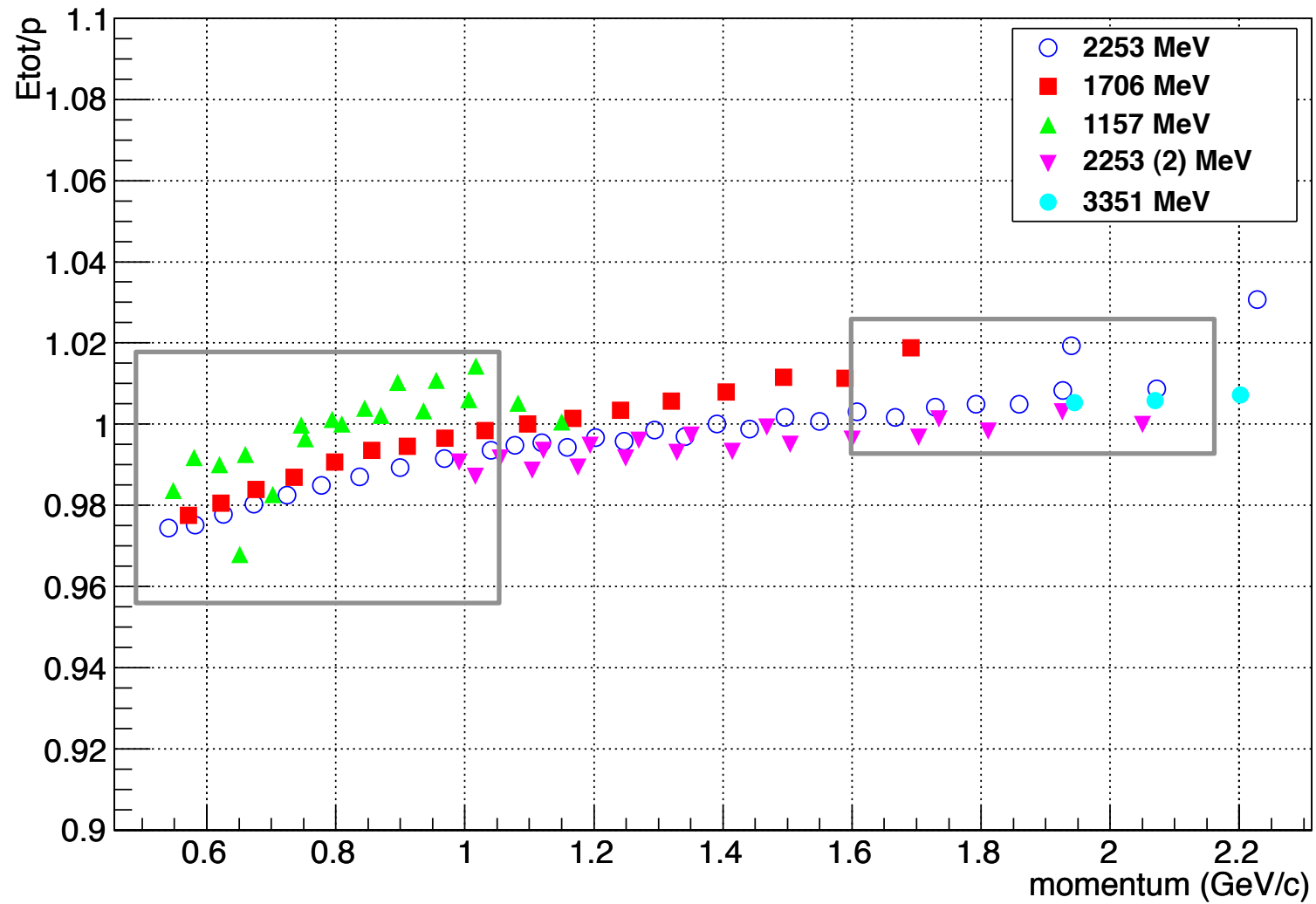
# Original Calibration

## RHRS PreShower/Shower Calibration Stability Check



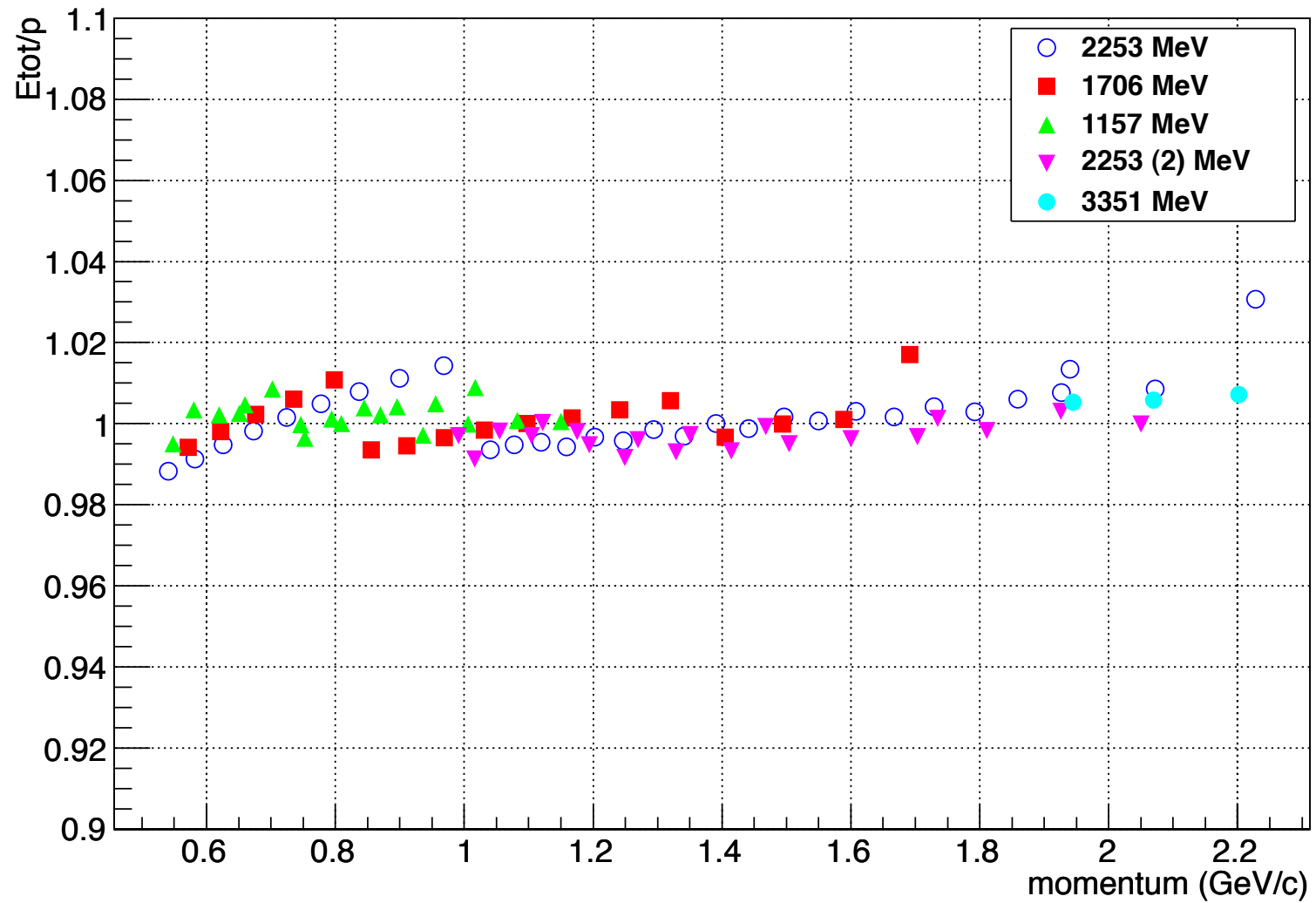
# Original Calibration

## RHRS PreShower/Shower Calibration Stability Check



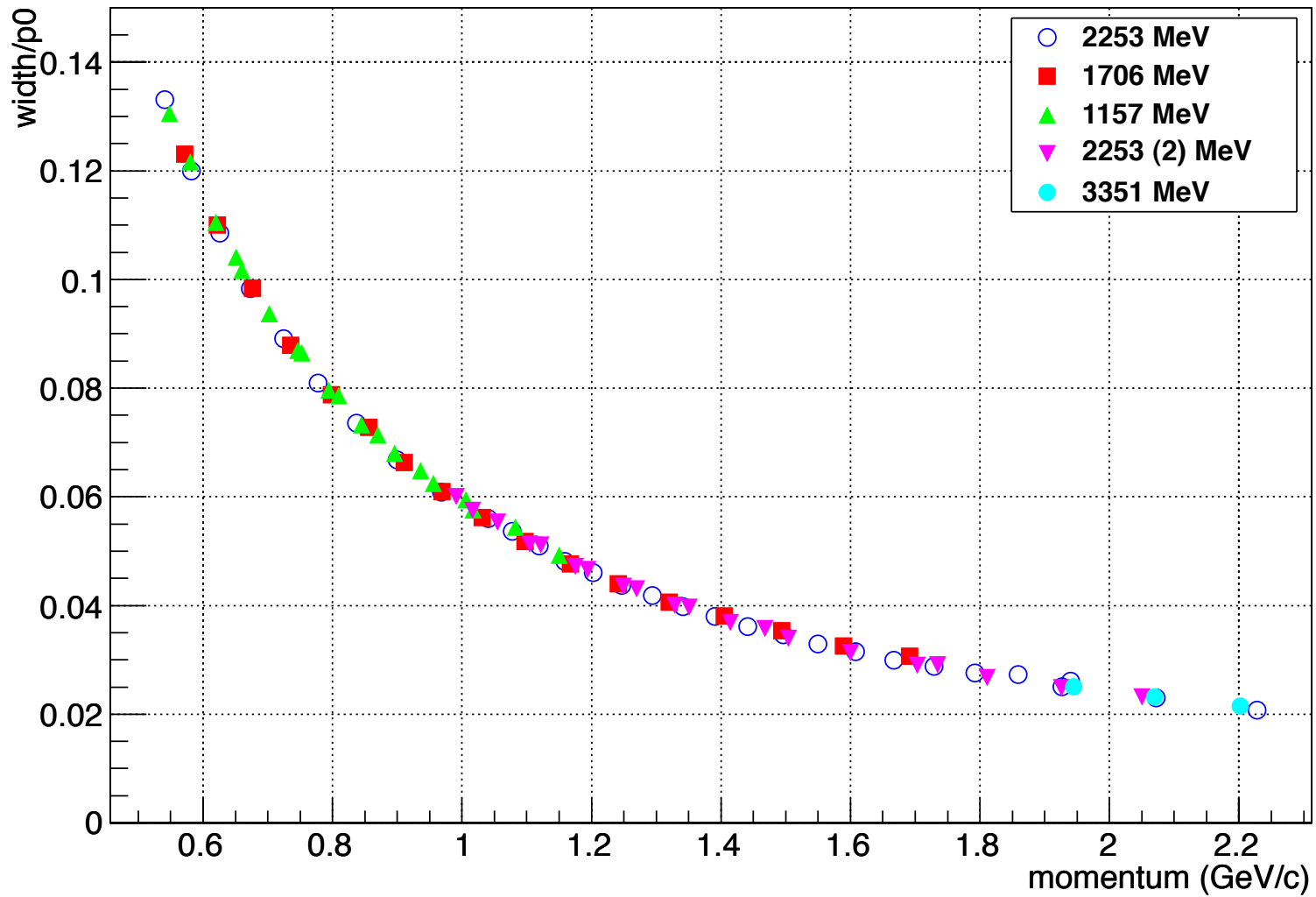
# Adjusted Calibration

## RHRS PreShower/Shower Calibration Stability Check



# Resolution

## RHRS PreShower/Shower Resolution





# Resolution

## RHRS PreShower/Shower Resolution

