

ZDCSMD Run 23 fastoffline data

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Purdue University

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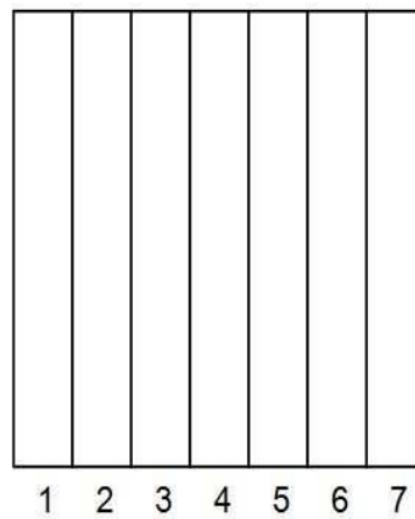


Data

■ Data set: production_AuAu_2023

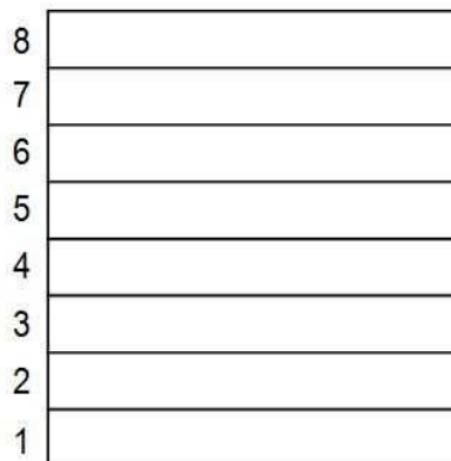
- Au + Au @ $SNN = 200 \text{ GeV}$
- Run ID: 24145033 – 24149032

ZDC Shower Max Detector (SMD)



Vertical slats (X)

(21 strips)



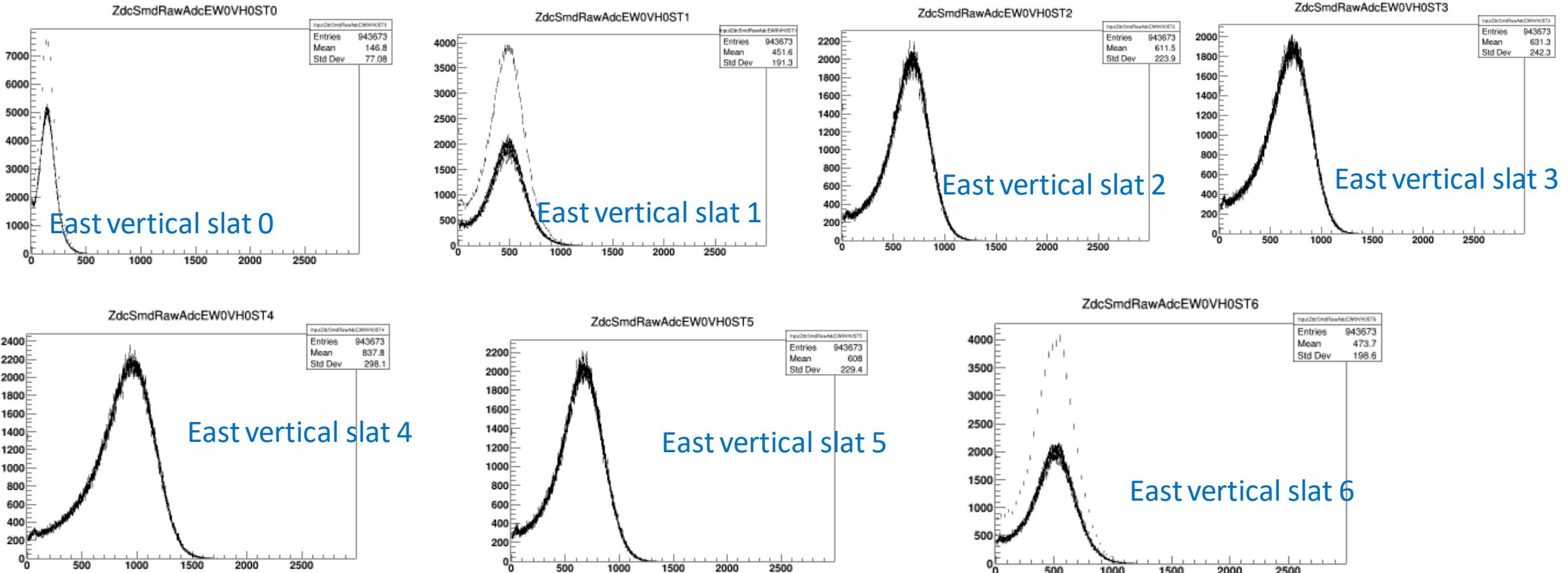
Horizontal slats (Y)

(32 strips)

■ Cuts:

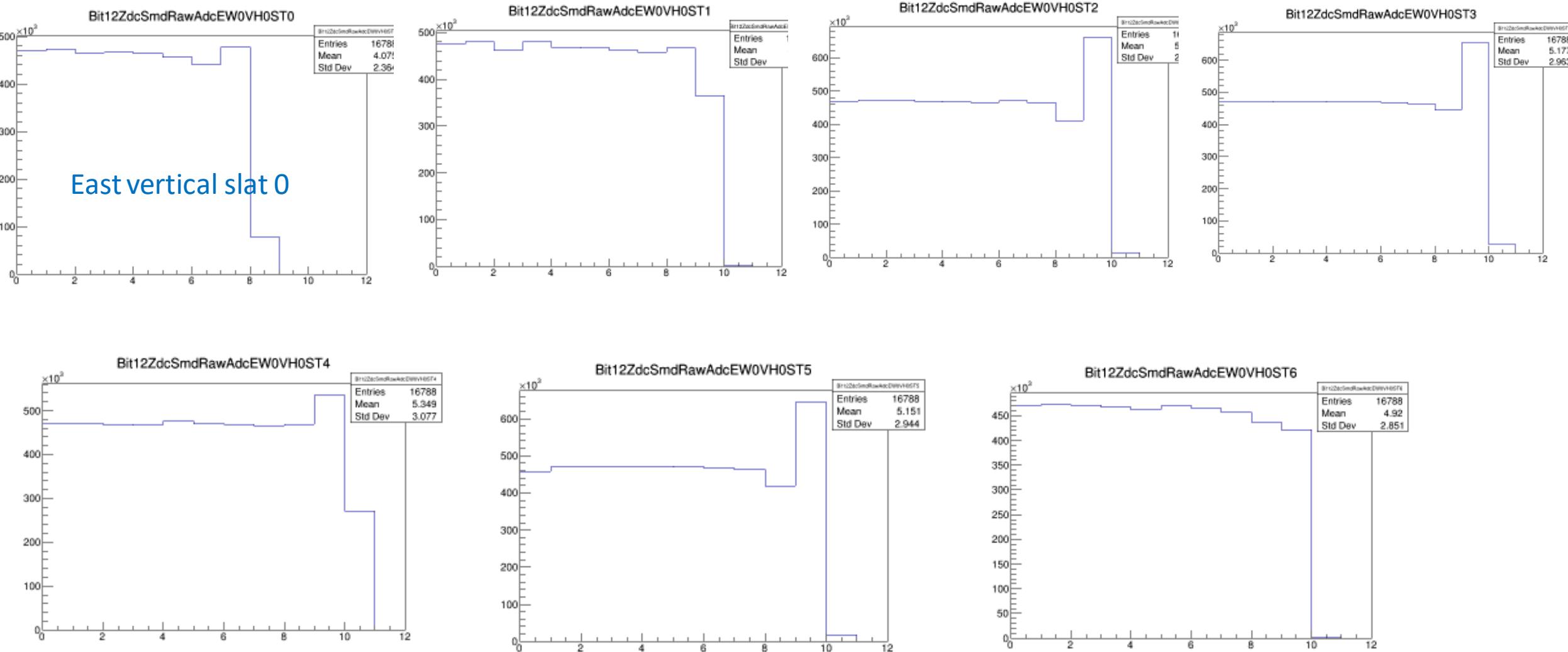
- $|\text{Vz}| < 30 \text{ cm}$
- $\text{nHitsFit} \geq 20$
- $\text{FitMaxRatio} \geq 0.52$
- $|\text{eta}| \leq 1$
- $\text{gdca} \leq 1 \text{ cm}$
- $p_t \geq 0.2 \text{ } \&\& p_t \leq 2.0$

ADC bins in various east vertical slats

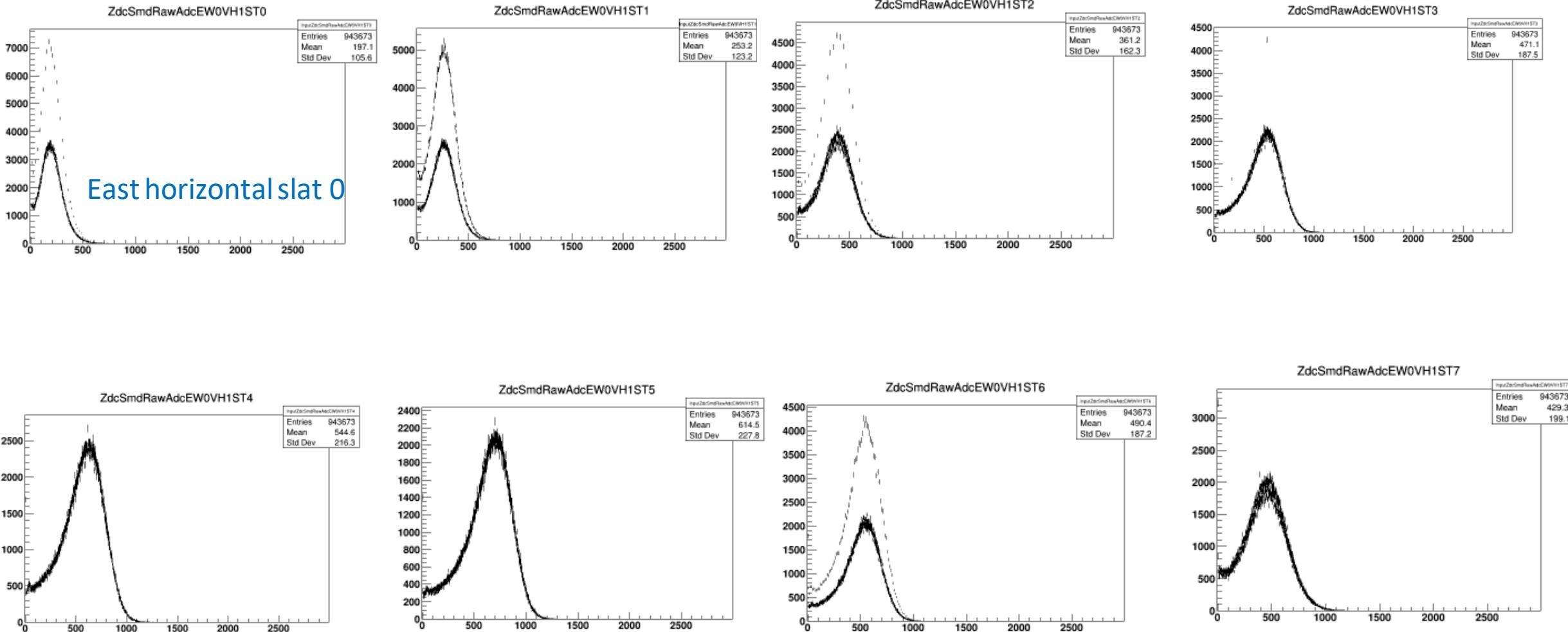


Many slats have some ADC bins twice as large as other bins.

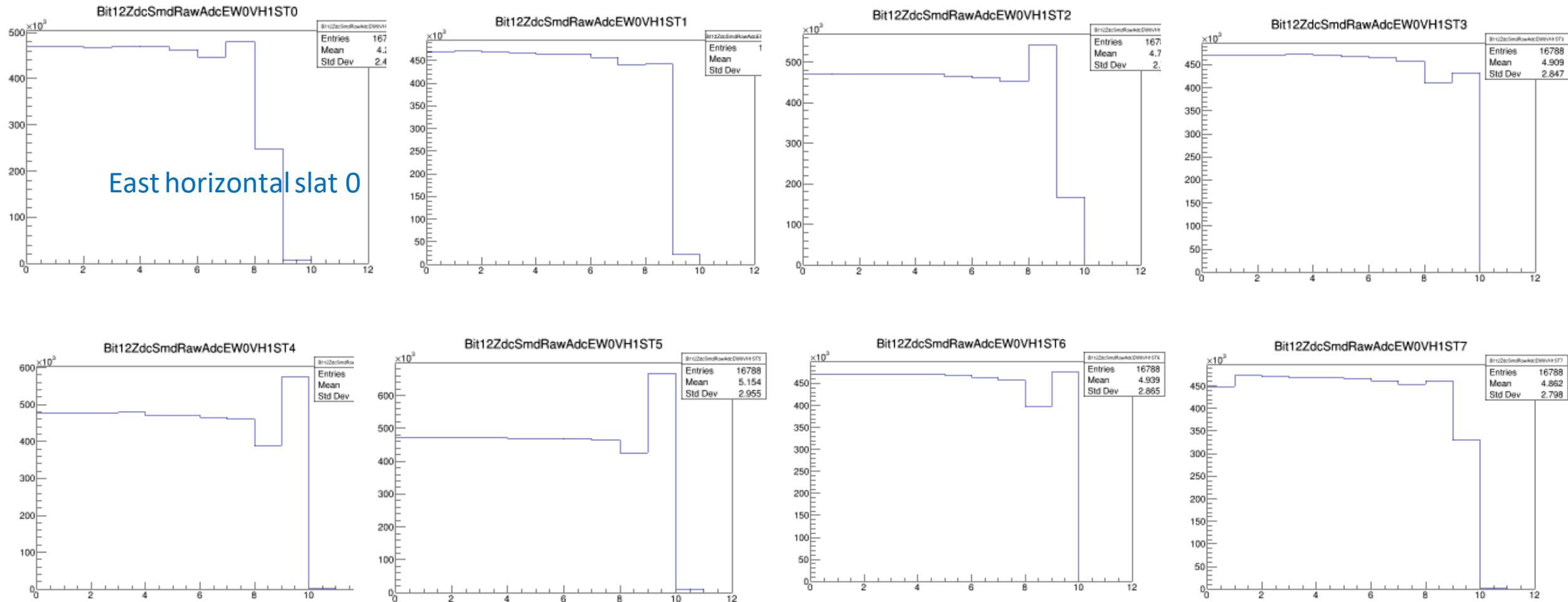
ADC 12-bit in various east vertical slats



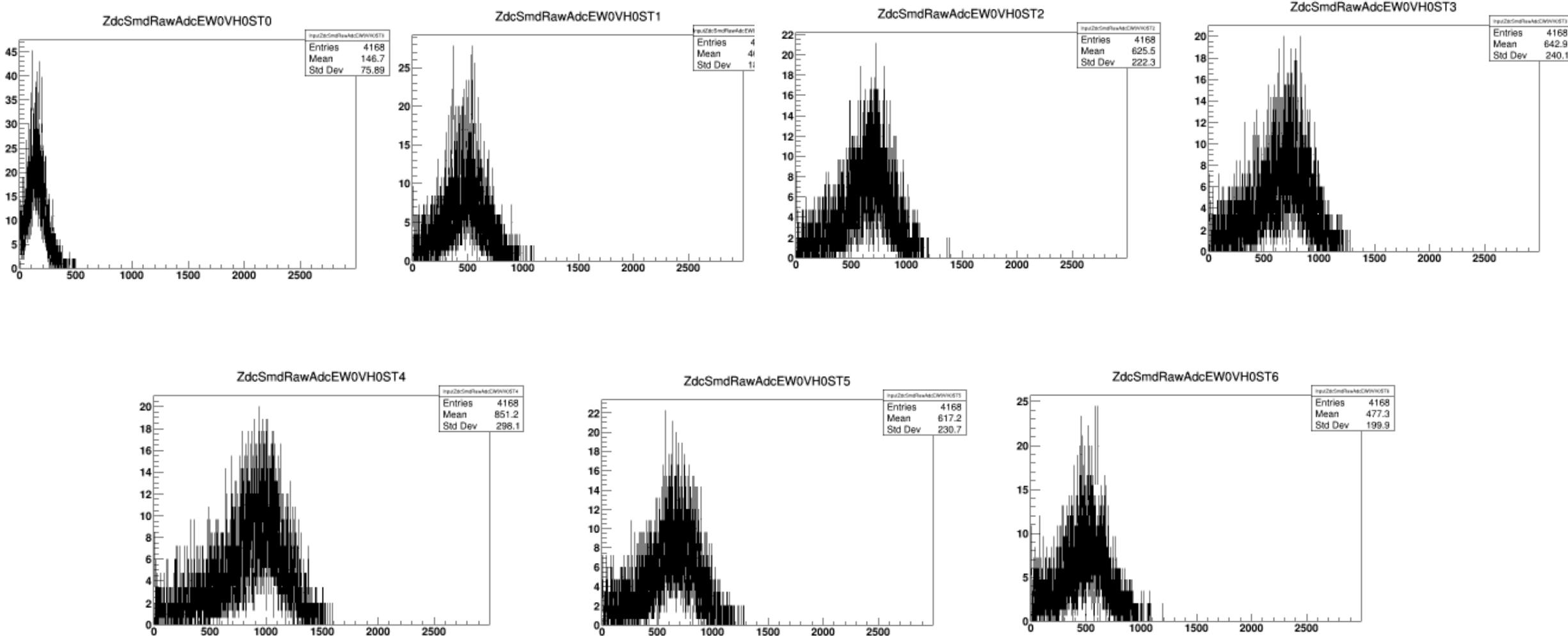
ADC bins in various east horizontal slats



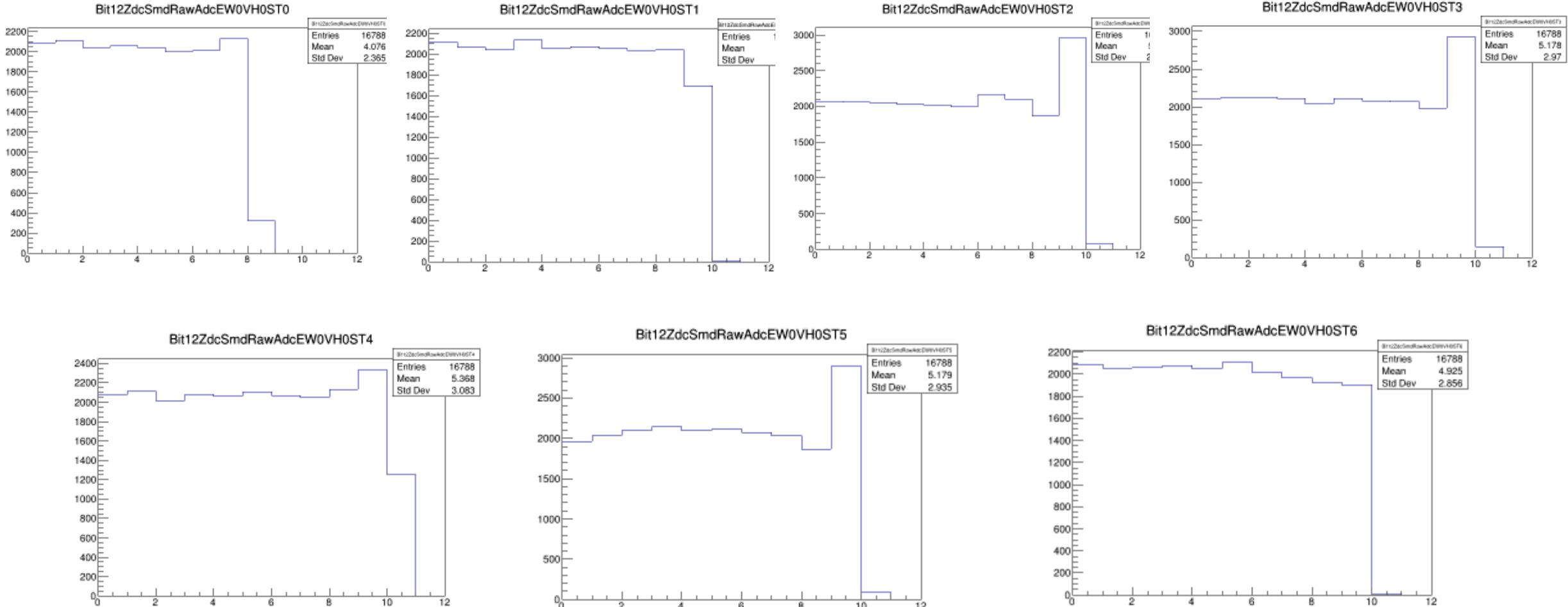
ADC 12-bit in various east horizontal slats



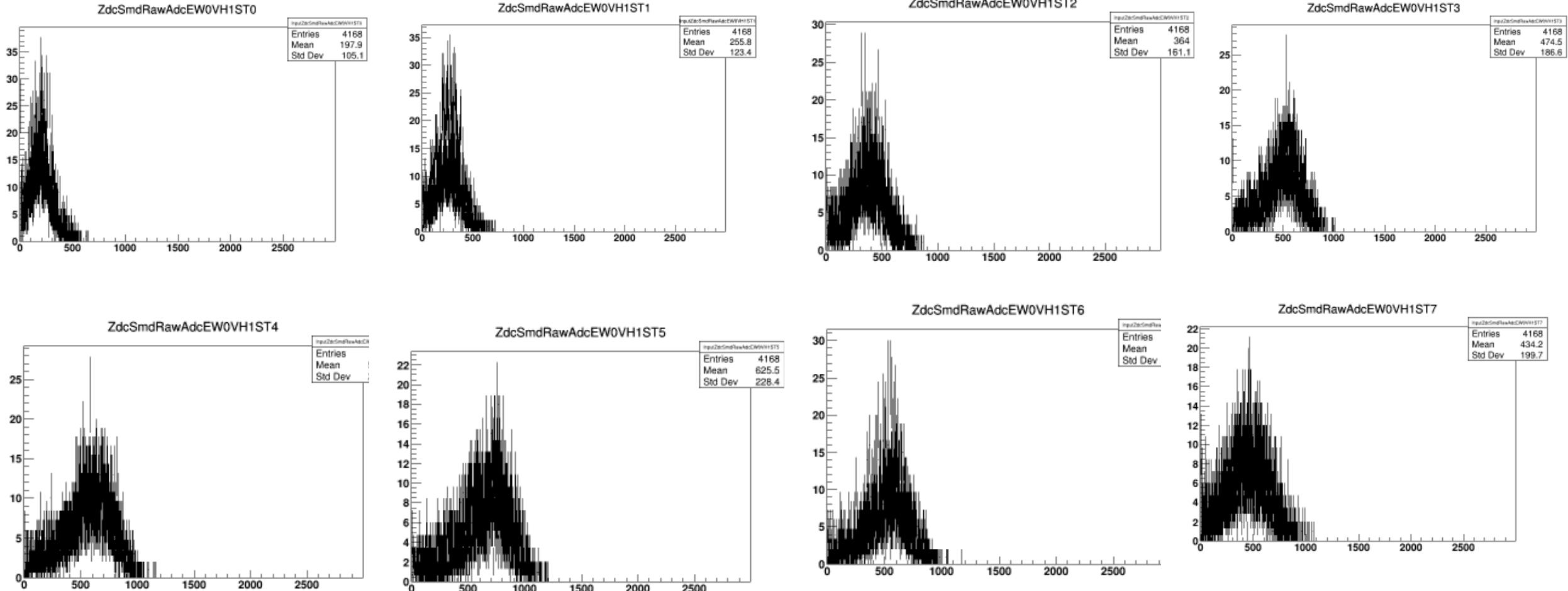
ADC bins in various east vertical slats (one single run 24146003)



ADC 12-bit in various east vertical slats (one single run 24146003)

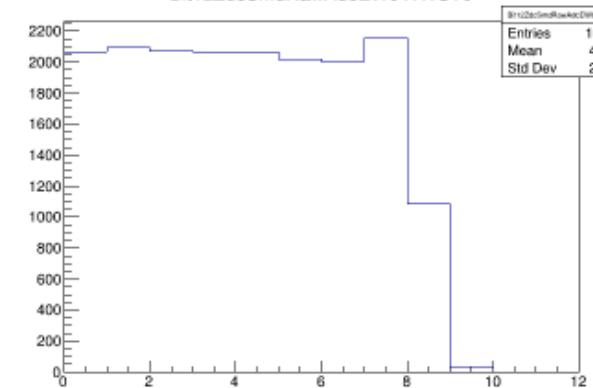


ADC bins in various east horizontal slats (one single run 24146003)

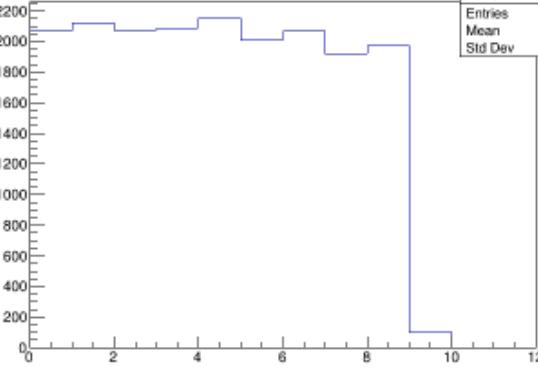


ADC 12-bit in various east horizontal slats (one single run 24146003)

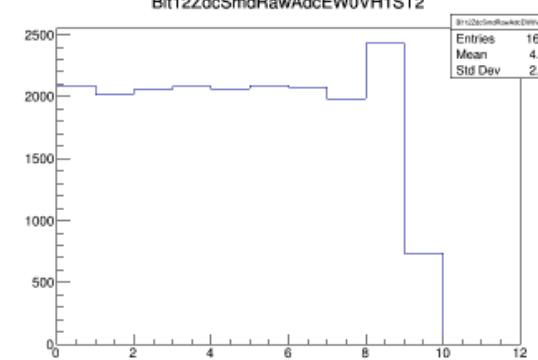
Bit12ZdcSmdRawAdcEW0VH1ST0



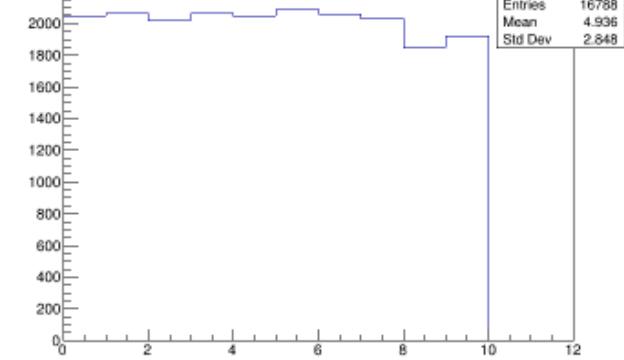
Bit12ZdcSmdRawAdcEW0VH1ST1



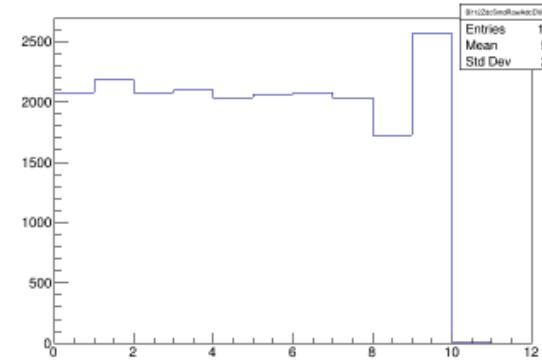
Bit12ZdcSmdRawAdcEW0VH1ST2



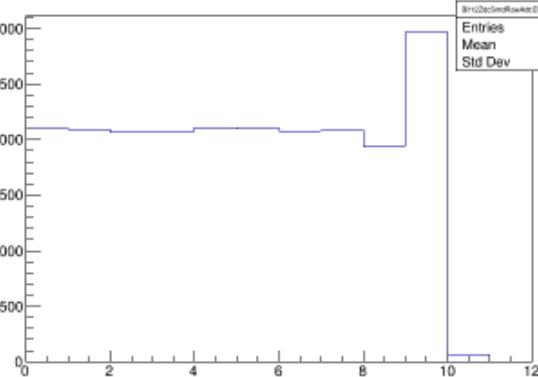
Bit12ZdcSmdRawAdcEW0VH1ST3



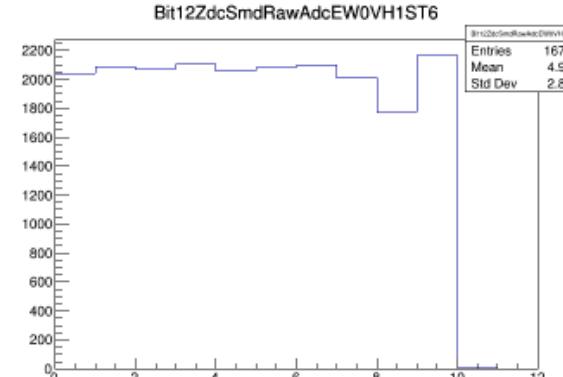
Bit12ZdcSmdRawAdcEW0VH1ST4



Bit12ZdcSmdRawAdcEW0VH1ST5



Bit12ZdcSmdRawAdcEW0VH1ST6



Bit12ZdcSmdRawAdcEW0VH1ST7

