

# Beam Monitor status

Dong Yunsheng

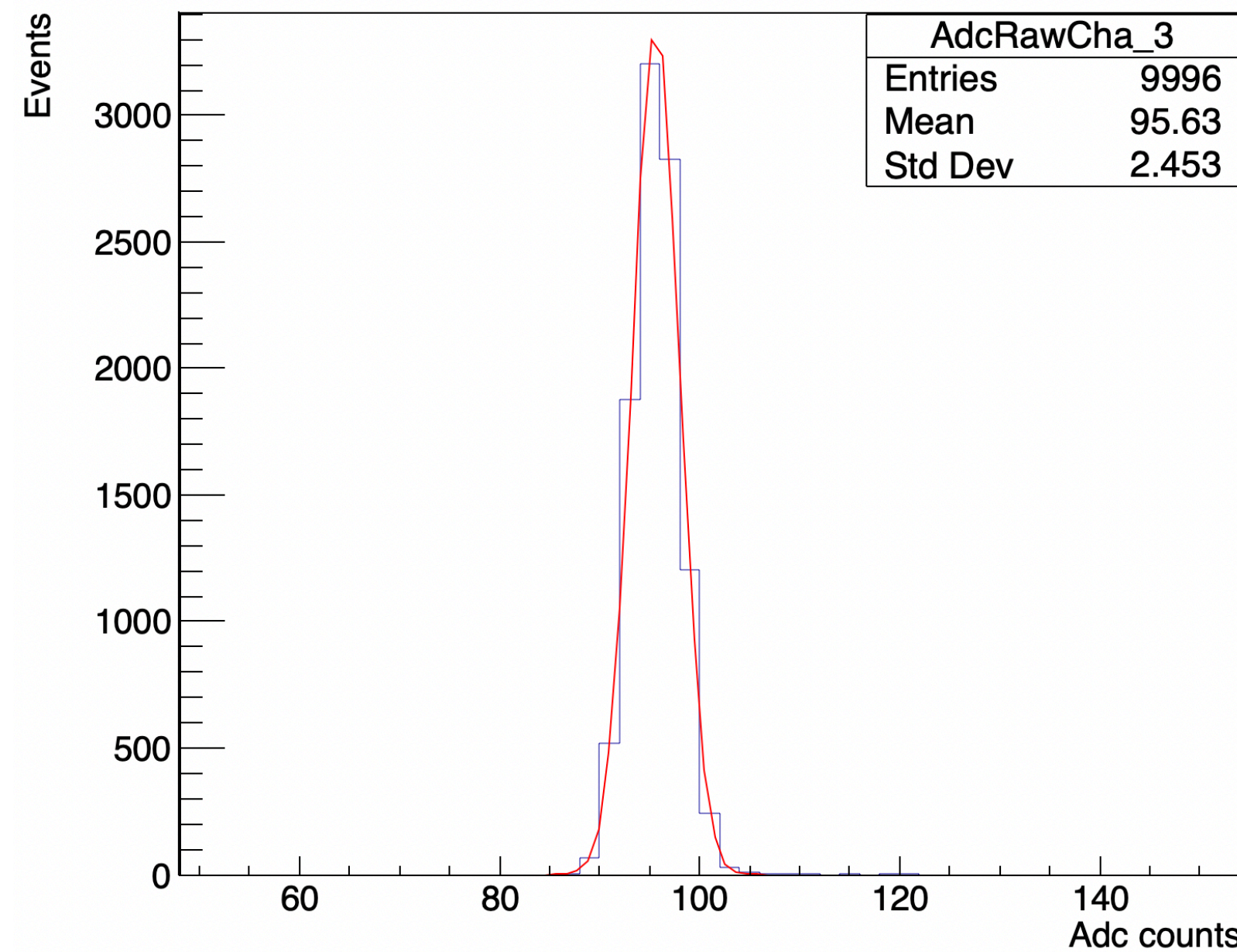
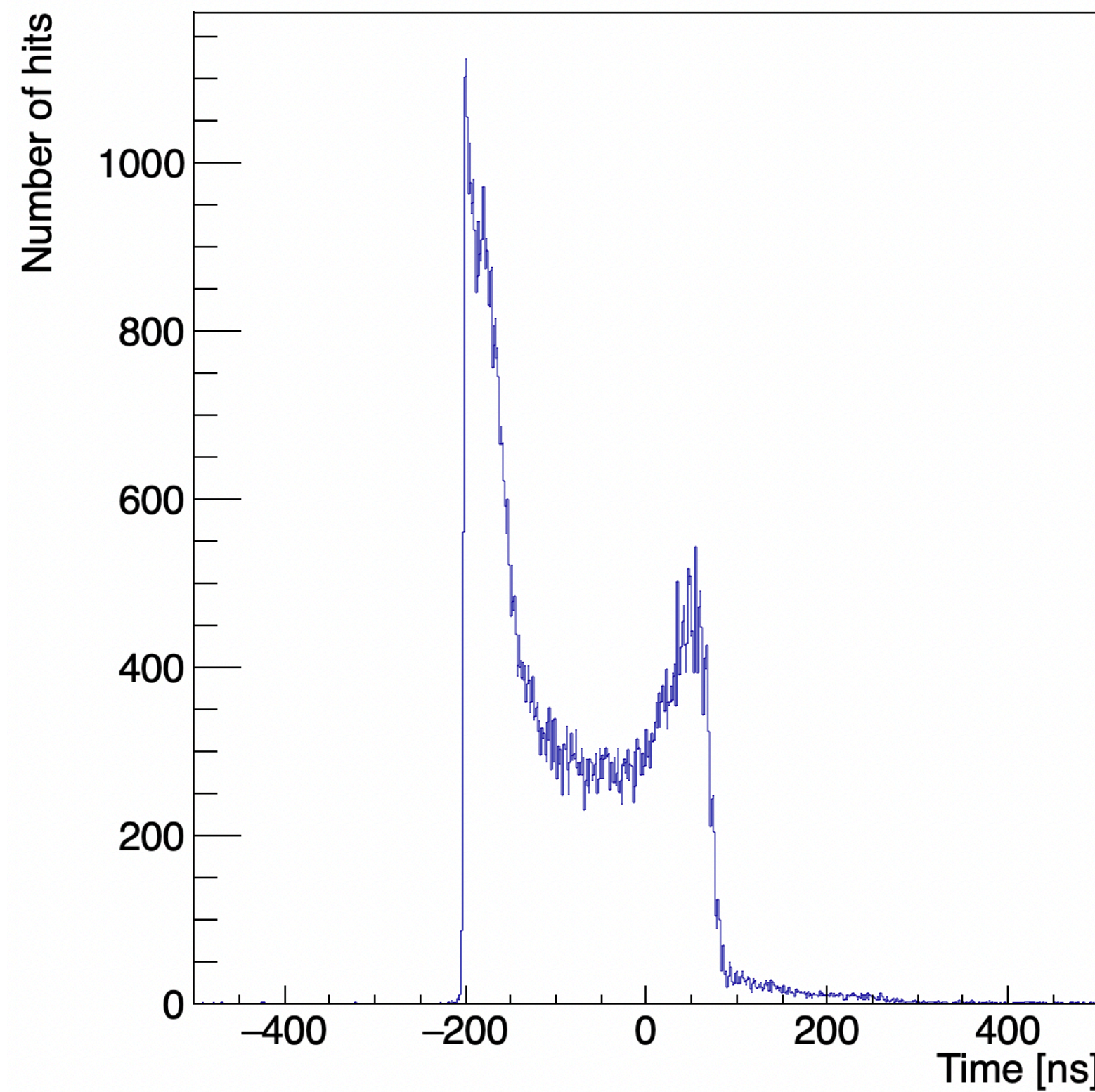
X FOOT General meeting

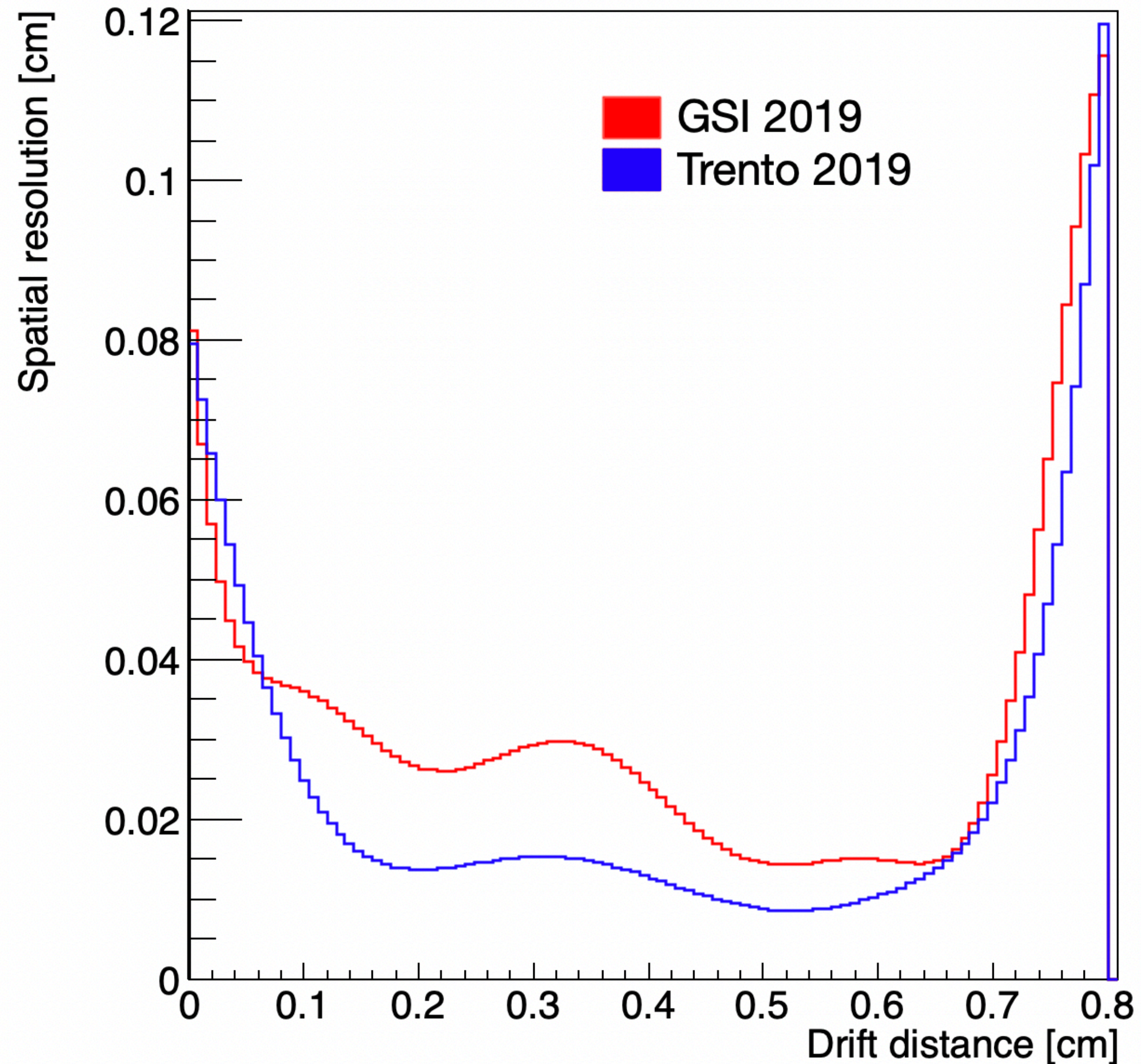
# Software status: CalibrateBm

The new executable CalibrateBm can be executed both on the FOOT DAQ and the BM stand alone data.

It has been developed to:

- **Evaluate the BM T0s needed for the tracking and the ADC pedestals**
- Calculate the detector spatial resolution obtained for a given dataset
- Perform a self iterative calibration of the space-time relations





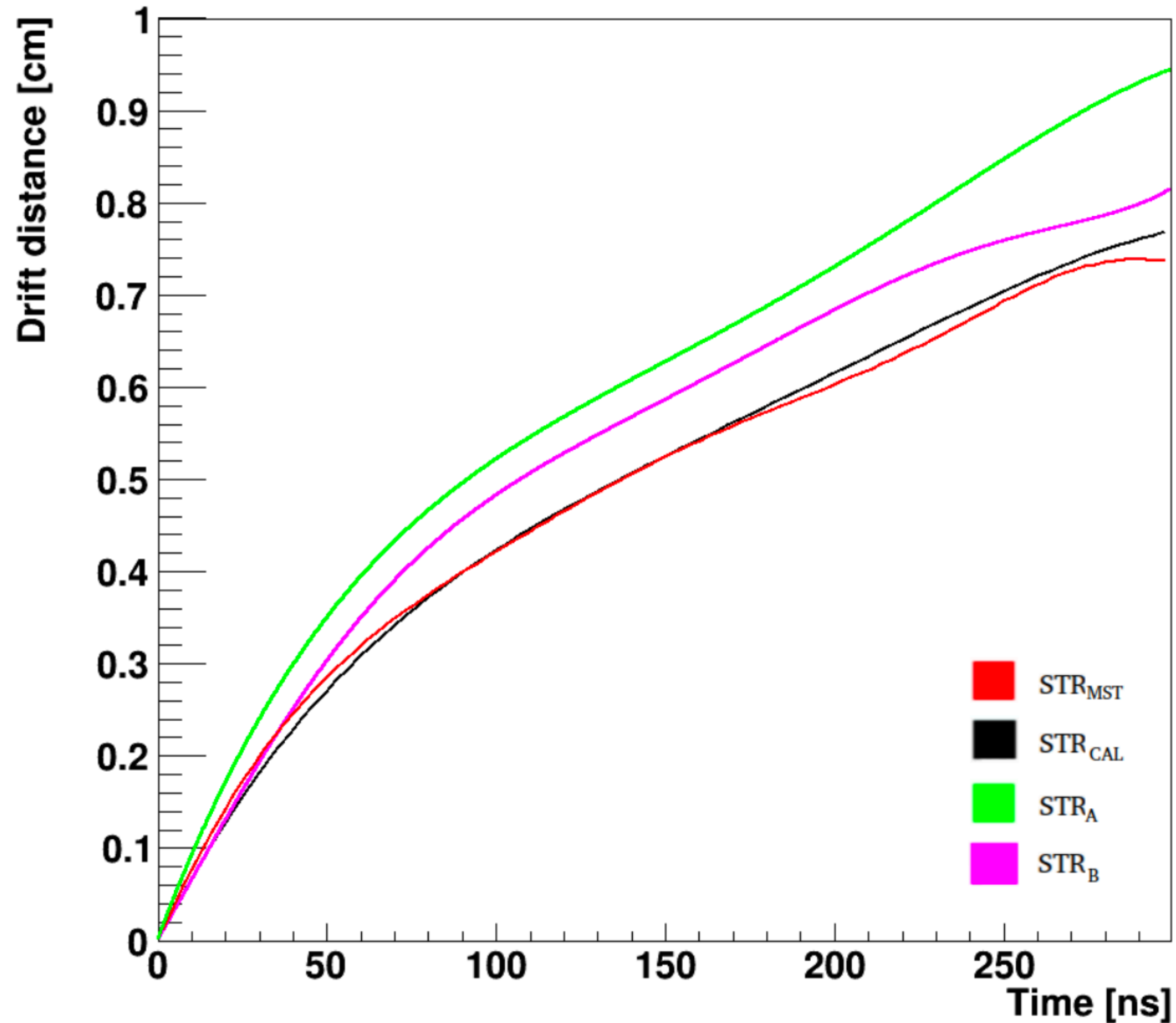
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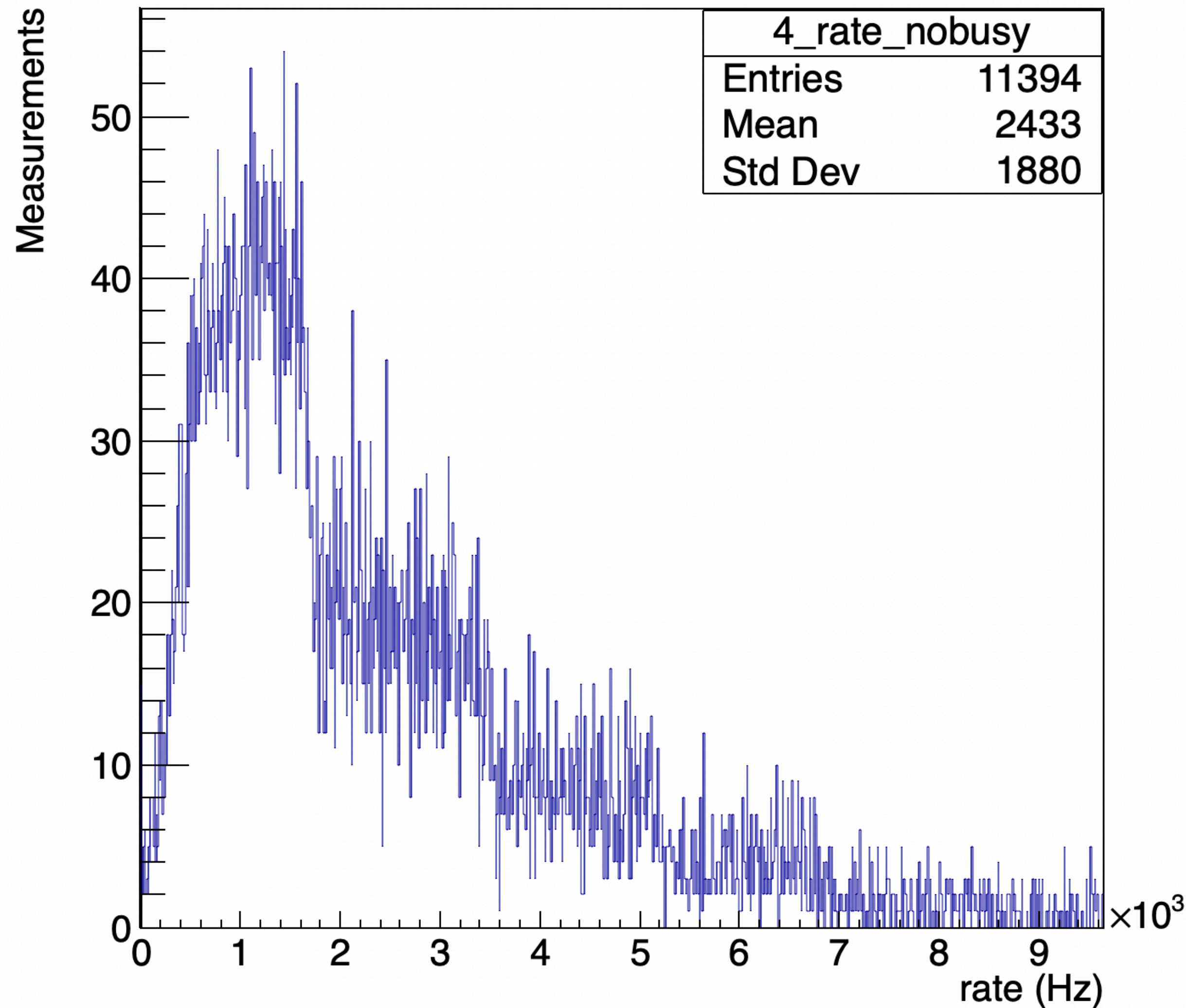


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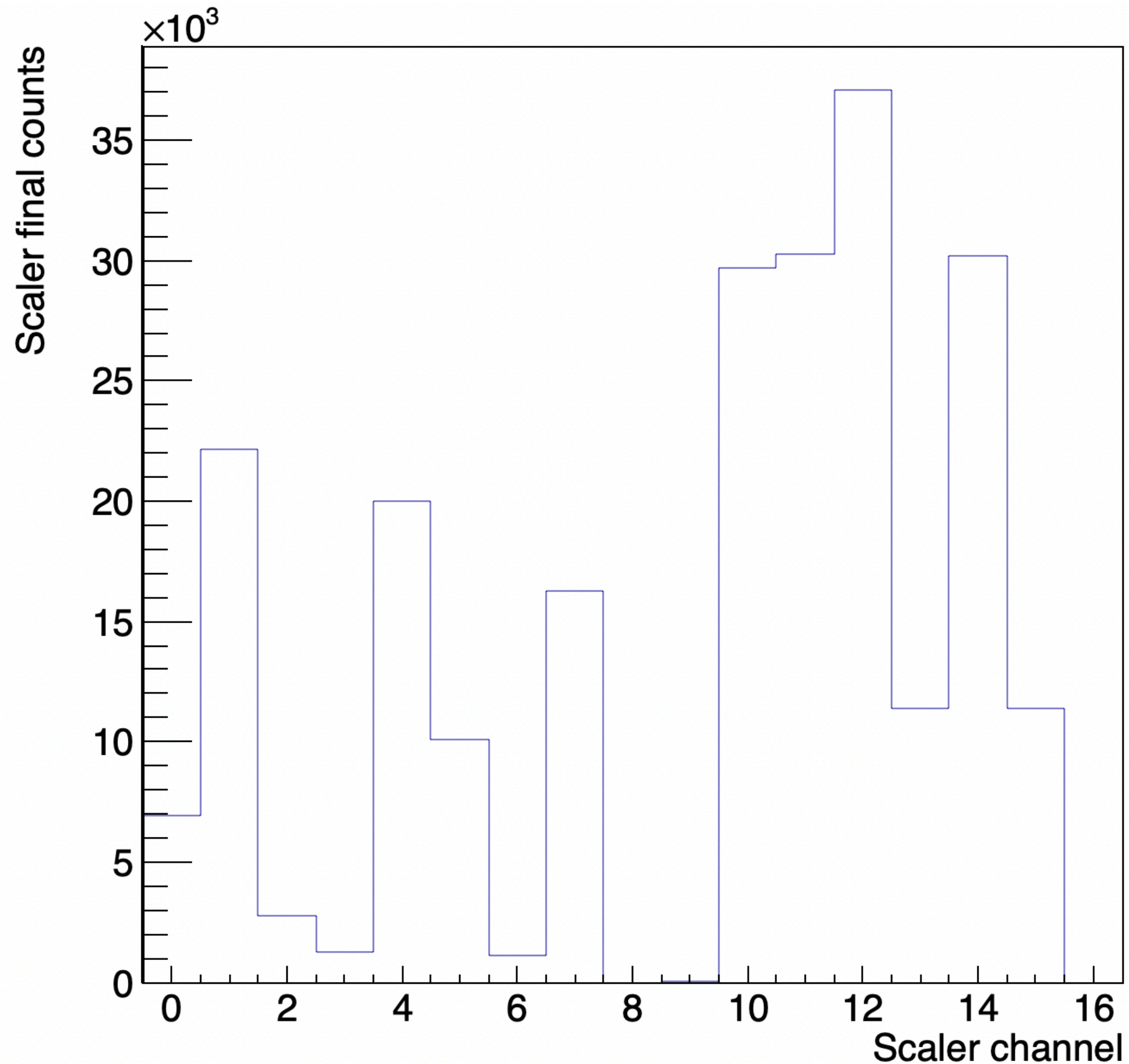
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# Software status: AnalyzeBm



A new executable developed to perform the BM analysis for the stand alone data taking (e.g.: Emulsion data takings). It has been developed to:

- **Evaluate the beam rate**
- Count the total number of delivered particles
- Reconstruct the tracks and display the beam spot profile



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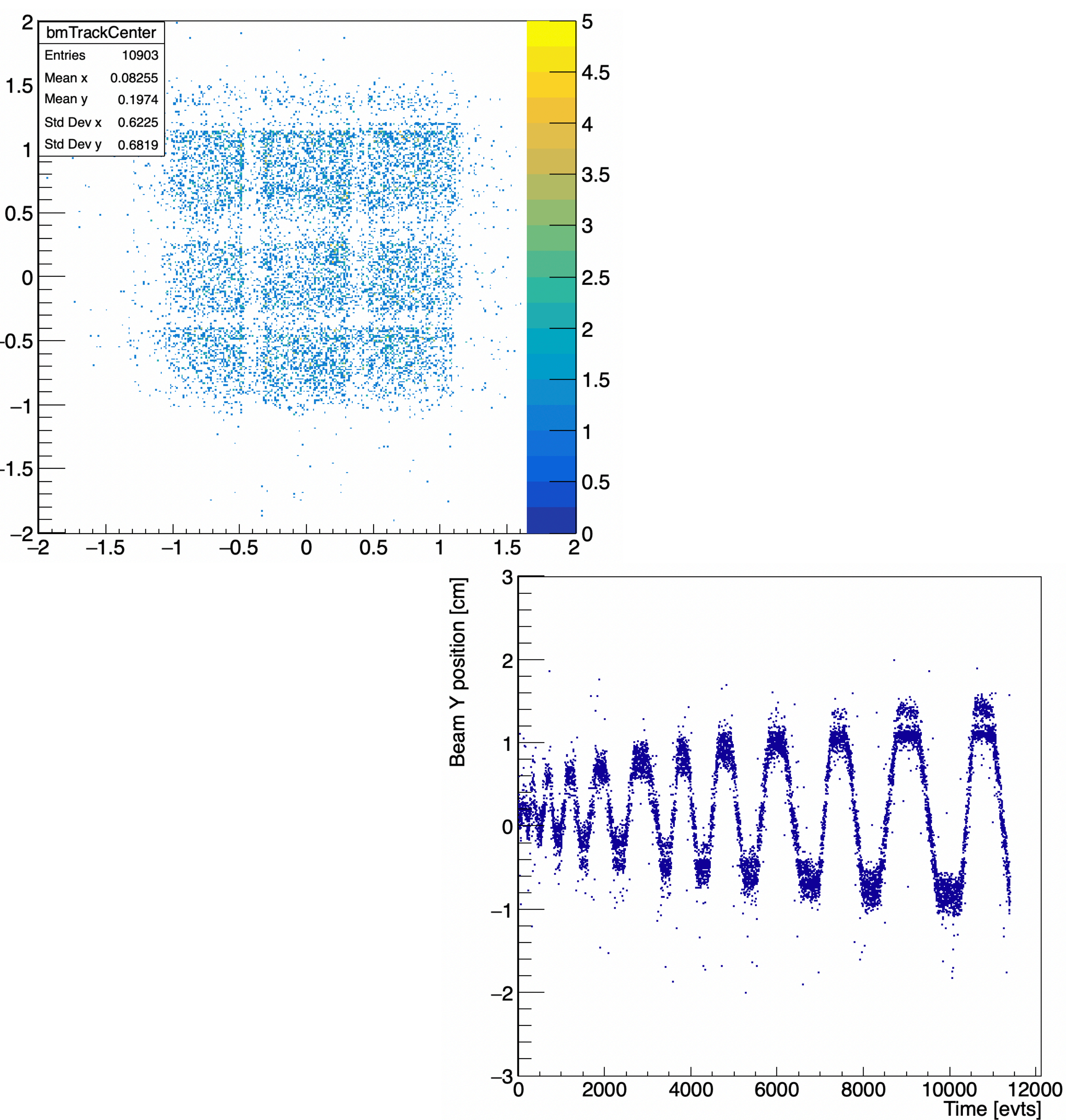
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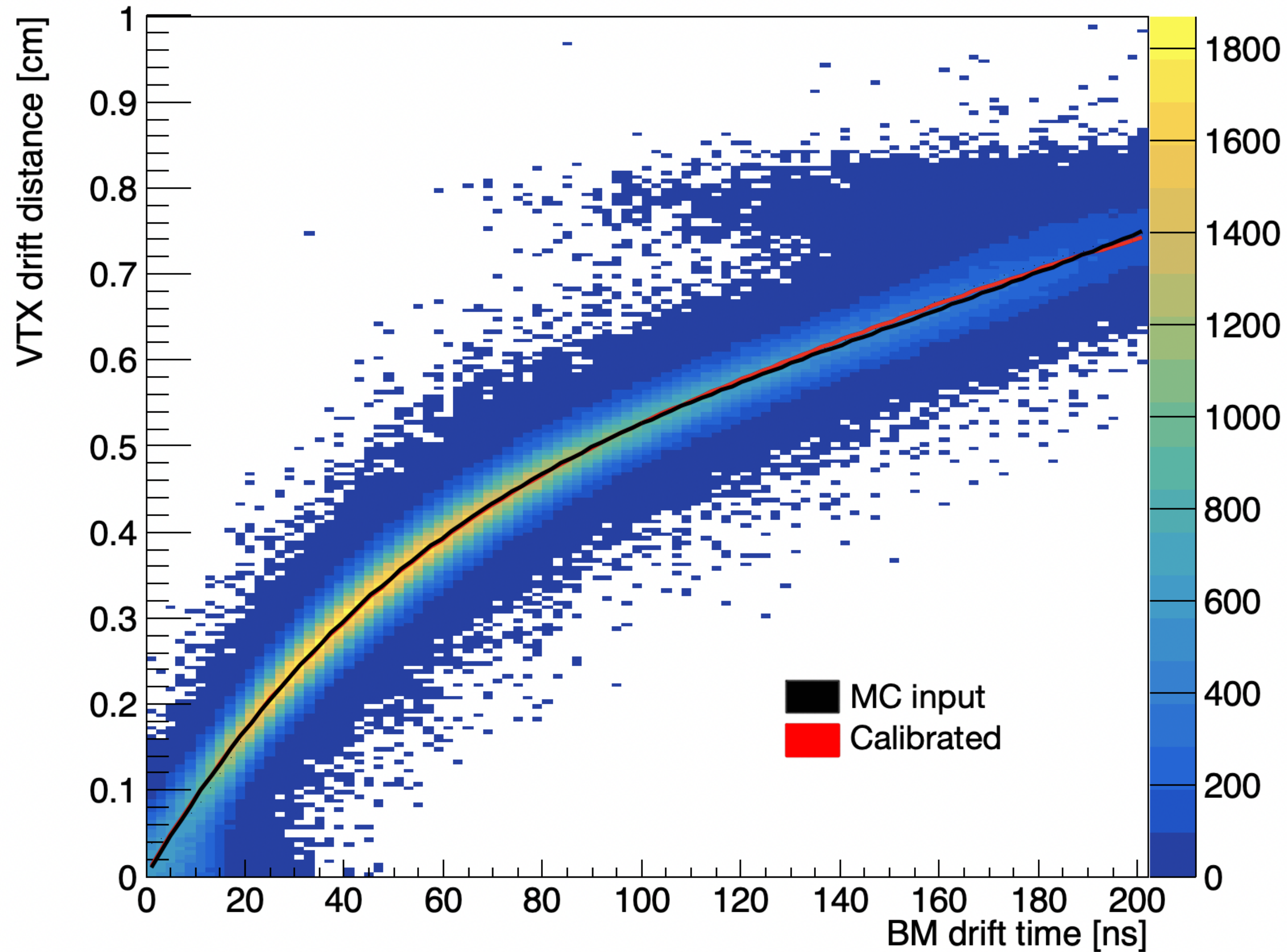
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# Software status: Newgeom



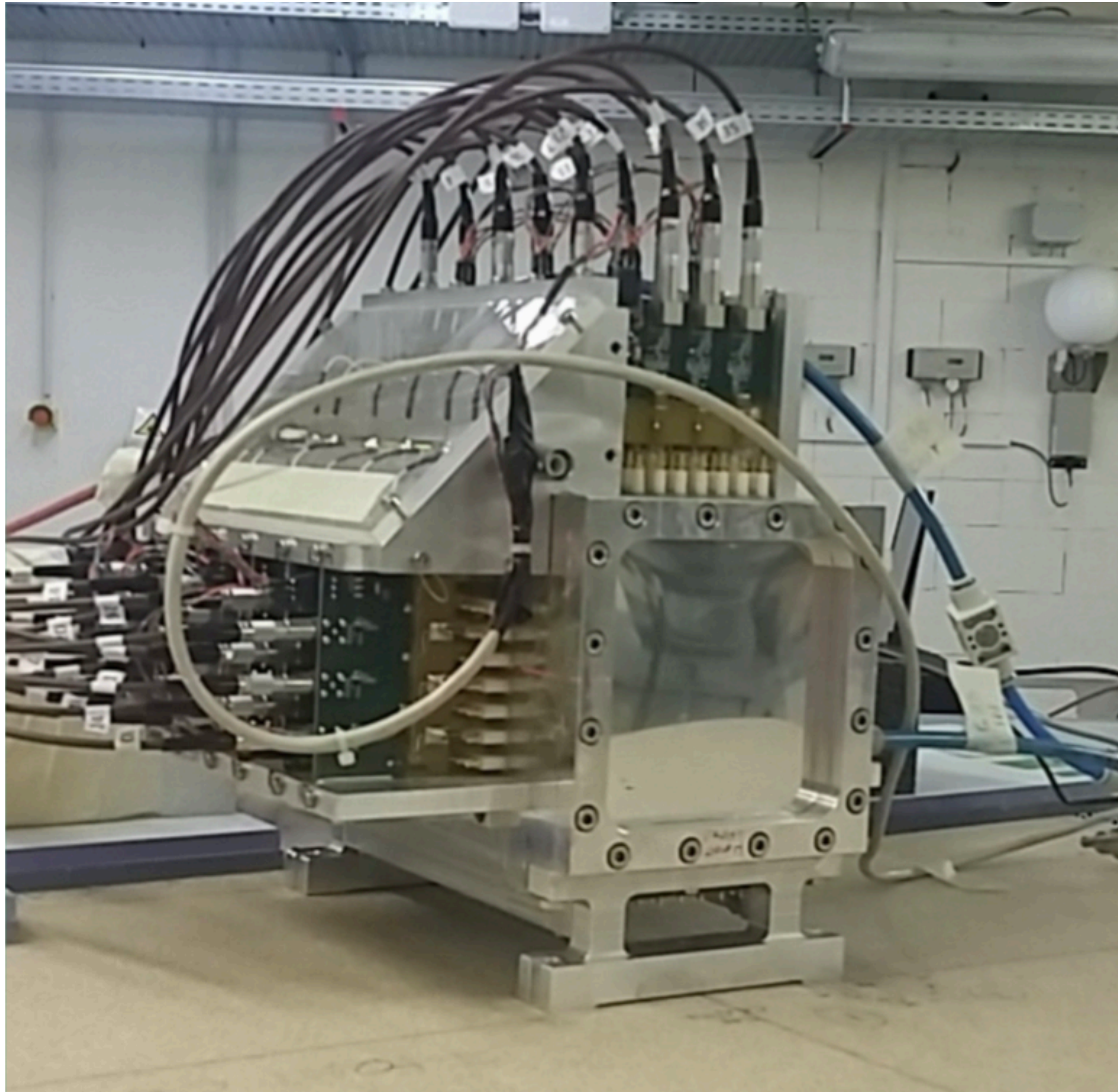
- The detector packages has been updated according to the recent naming conventions (thanks to Chris).
- Different macros updated (e.g.: a macro dedicated to evaluate the BM-VTX match and to calibrate the BM space-time relations with VTX tracks)





## Hardware status

- Thanks to Mario Anelli (the person who built the BM), the detector missing channel has been repaired.
- A check on the output raw signals of the BM channels will be conducted in Rome in the next weeks.



## Road to GSI2021

- The time jitter detected in GSI 2019 should be resolved: both the Margarita and the trigger signal (the one with a jitter of 10 ns) will be read by the TDC. In principle, no other jitter should be present. (See the DAQ presentation)
- No specific time requests for calibration, the BM can profit from the alignment runs to evaluate the T0

