# TB analysis update

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# **Statistical Calorimetry**

Update of previous results

## **Calorimetry Strips**

- Filter events based on "entry point" of the electron (alignment based on 1W plate run)
- 100 strips from center of pad to center of next pad
- Sum up depositions in the layer given entry point









Layer by layer per strip





<mark>1W plate</mark>



<mark>Sum in "shower"</mark>

## Silicon



layer	1
layer	2
layer	3
layer 4	4
layer	5
layer	6
layer	7
layer	8
layer	9
layer	10
layer	11
layer	12
layer	13
layer	14
layer	15



#### Silicon



<mark>1W plate</mark>

### Silicon



<mark>Sum of shower</mark>

# **Energy Distribution**

#### Silicon + 1W



Full results + simulation are available in Mihai's presentation from July 2023





#### Silicon + 10W



#### Silicon + 15W





ADC counts



ADC counts





Results of energy sum in layer – as in Silicon

## "Sensor Halves" Scan

(Filip's scan)

## Approach

- Sensor is divided along a gap (fixed)
- Depositions are summed in each of the two sections (fixed)
- Average over events with entry points in the same strip



GaAs - X











X Strip (50 $\mu$ m)

GaAs-Y







Y Strip (50 $\mu$ m)



Y Strip (50µm)

#### Silicon – X





X Strip (55.3µm)





X Strip (55.3µm)

#### Silicon – Y









Y Strip (55.3µm)

Y Strip (55.3µm)

# The End

for now...