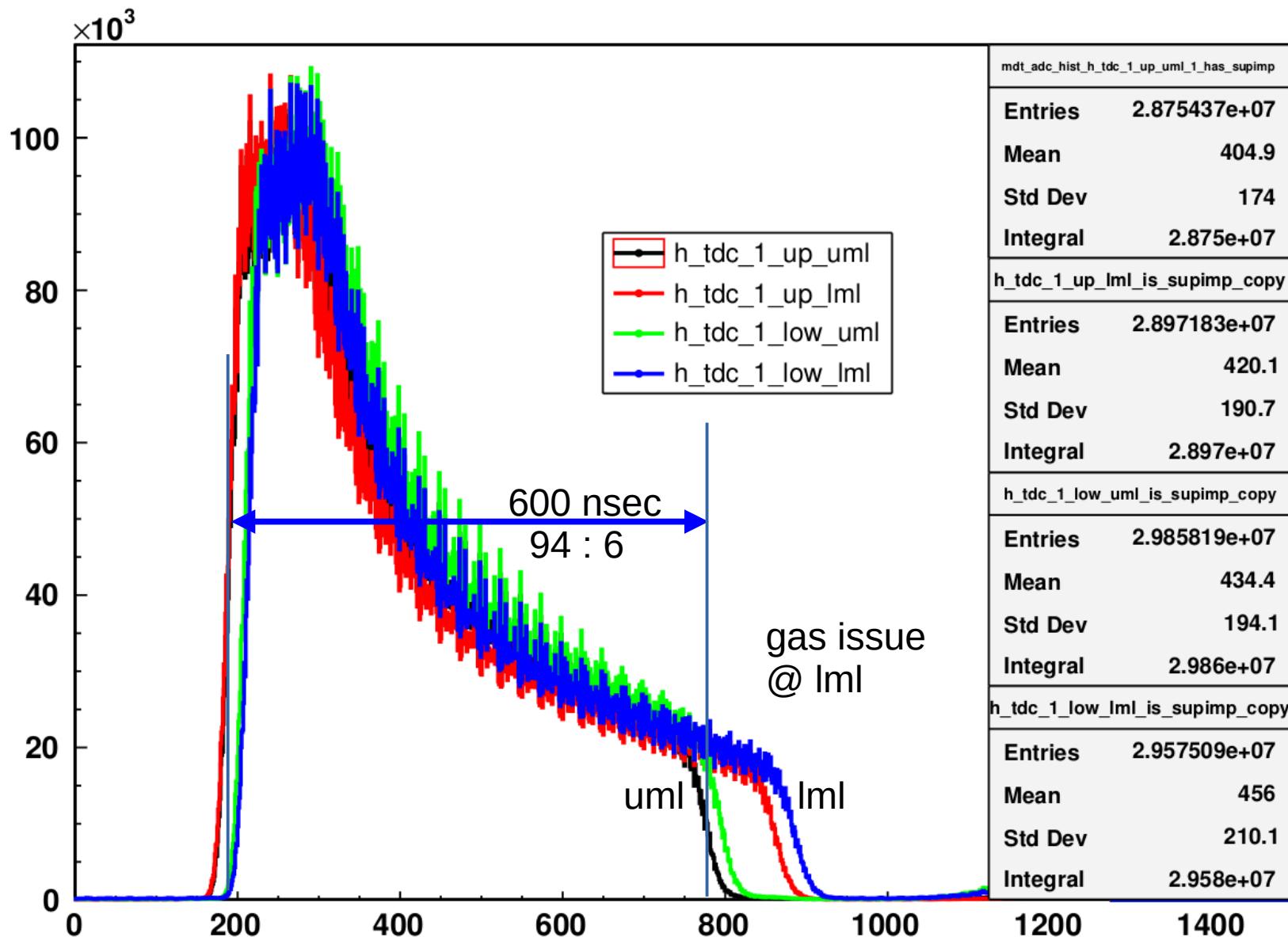
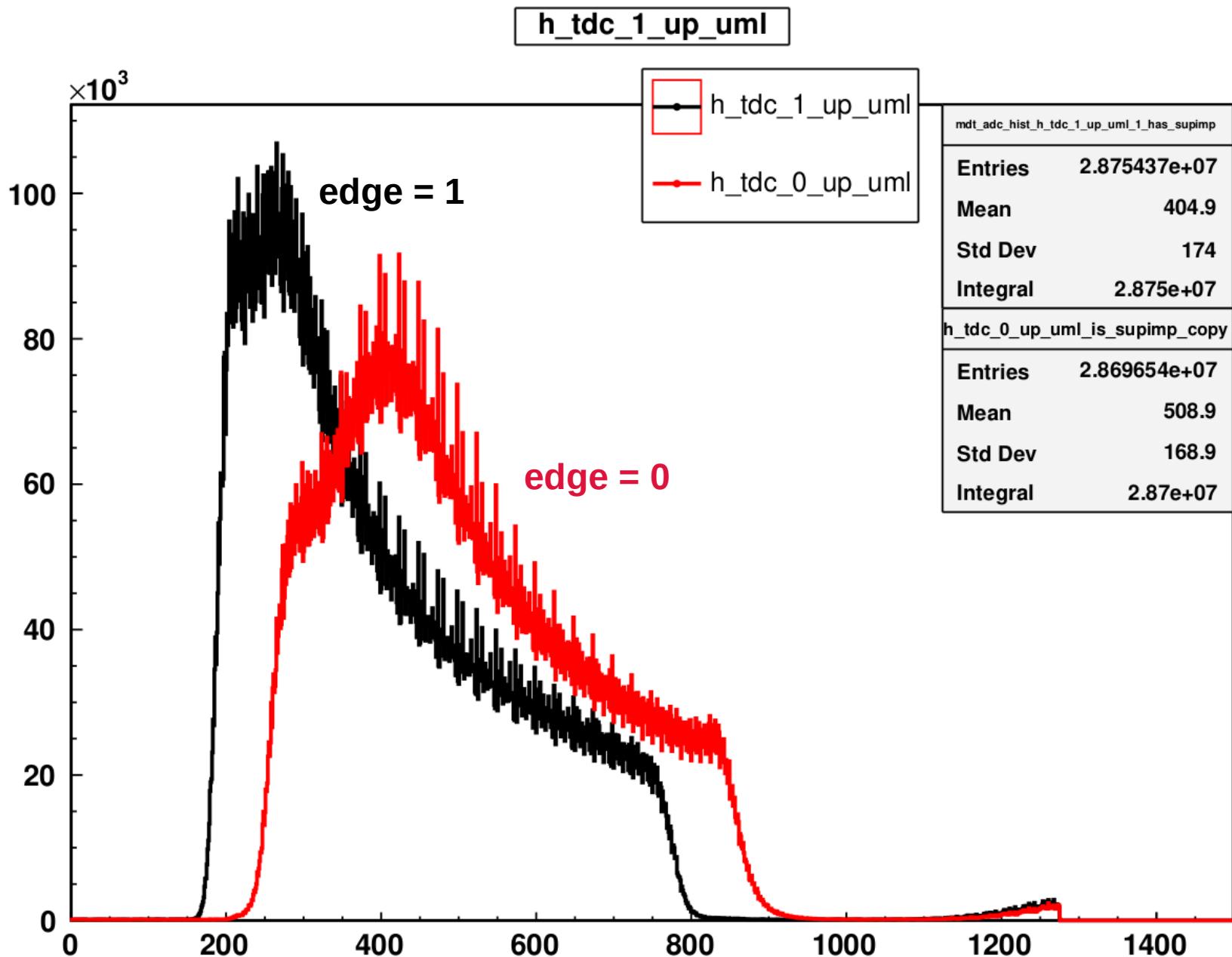


TDC Spectra: m03_560V_new_20240624_1504_xx.MT_Rawdata

h_tdc_1_up_uml

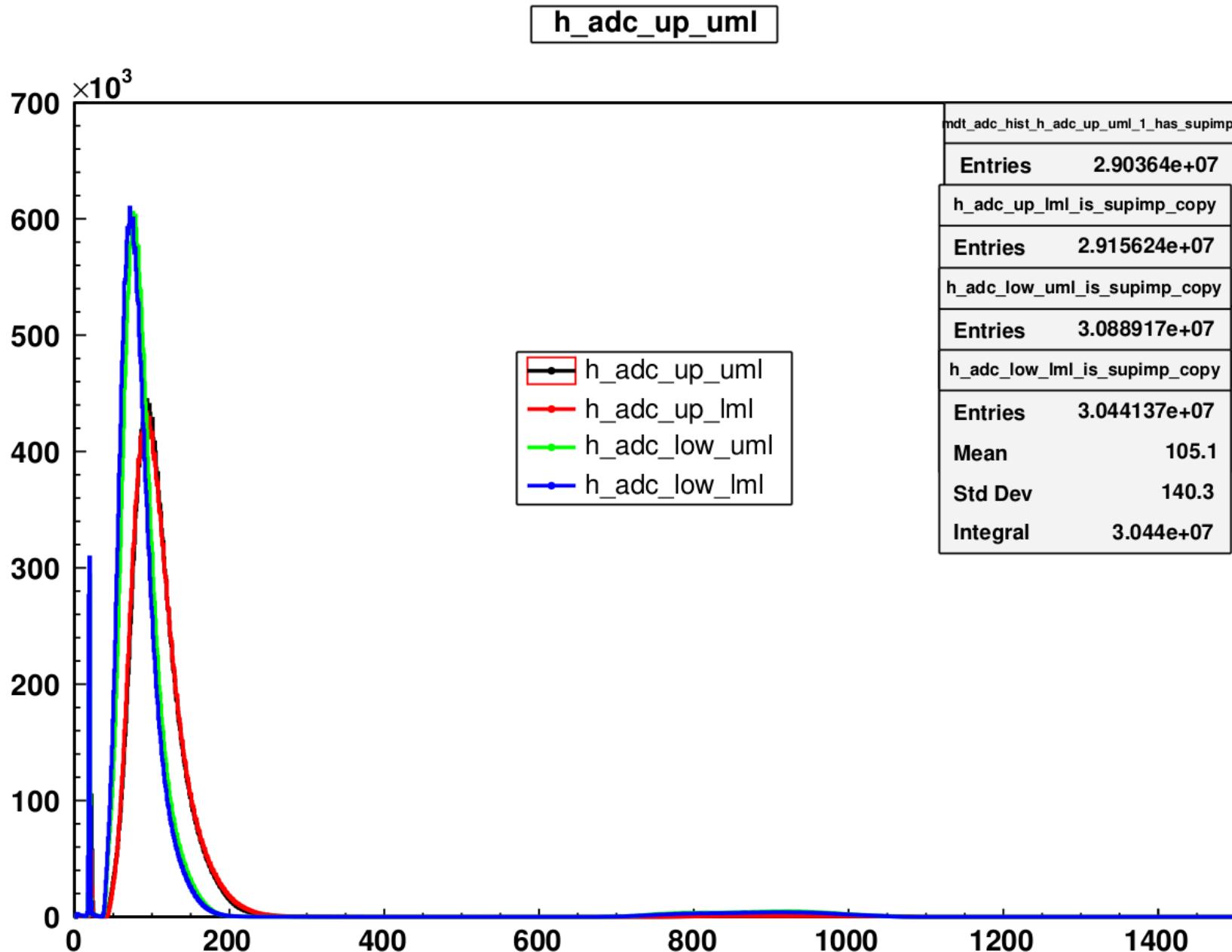


Drawn at: 2024-07-17 16:04:25

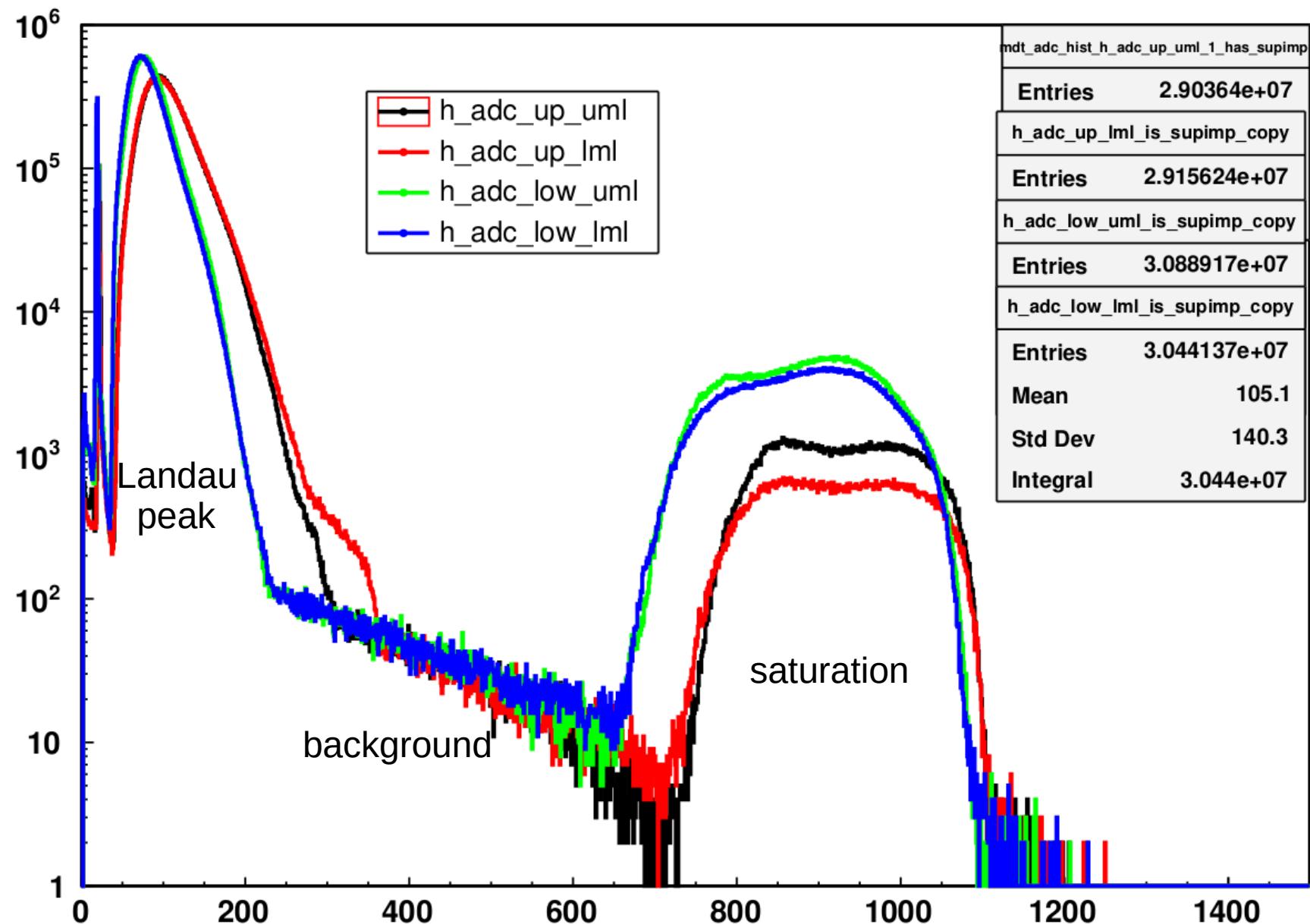


Drawn at: 2024-07-17 16:03:14

Difference of edge=0 and edge=1 TDC spectra



h_adc_up_uml



TDC header: Event header from TDC 4096

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
1	0	1	0																													

TDC: Programmed ID of TDC.

Event ID: Event ID from event counter.

Bunch ID: Bunch ID of trigger (trigger time tag).

TDC trailer: Event trailer from TDC

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
1	1	0	0																													

Word count: Number of words from TDC (incl. headers and trailers).

Mask flags: Channel flags for channels having hits with in mask window

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
0	0	1	0																														

Mask flags: Channels flagged as having hits with in mask window.

Single measurement data: Single edge time measurement 1FFEO | 1 F

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
0	0	1	1																														

Channel: TDC channel number.

Coarse Time: Coarse time measurement (in bins of 25ns)

Fine Time: Fine time measurement from PLL (in bins of 25ns/32).

T: Edge type: 1 = leading edge, 0 = trailing edge.

E: Error: An error has been detected in the hit measurement (a coarse counter error, a channel select error, or a rejected hit error).

Combined measurement data: Combined measurement of leading and trailing edge

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
0	1	0	0																														

Width: Width of pulse in programmed time resolution (CSR9 width_select). If the pulse width exceeds the width range (overflow), the width will be \$FF. If trailing edge time becomes less than leading edge time due to count rollover (underflow), the width will be \$00.

Coarse Time: Coarse time measurement of leading edge relative to trigger (in bins of 25ns).

Fine Time: Fine time measurement of leading edge (in bins of 25ns/32).

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
0	1	1	0																														

Error flags: Error flags sent if an error condition have been detected

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
0	1	1	0																														

Error flags: see Table. 2 and Table. 3.

Debugging data: Additional information for system debugging

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
0	1	1	1																														

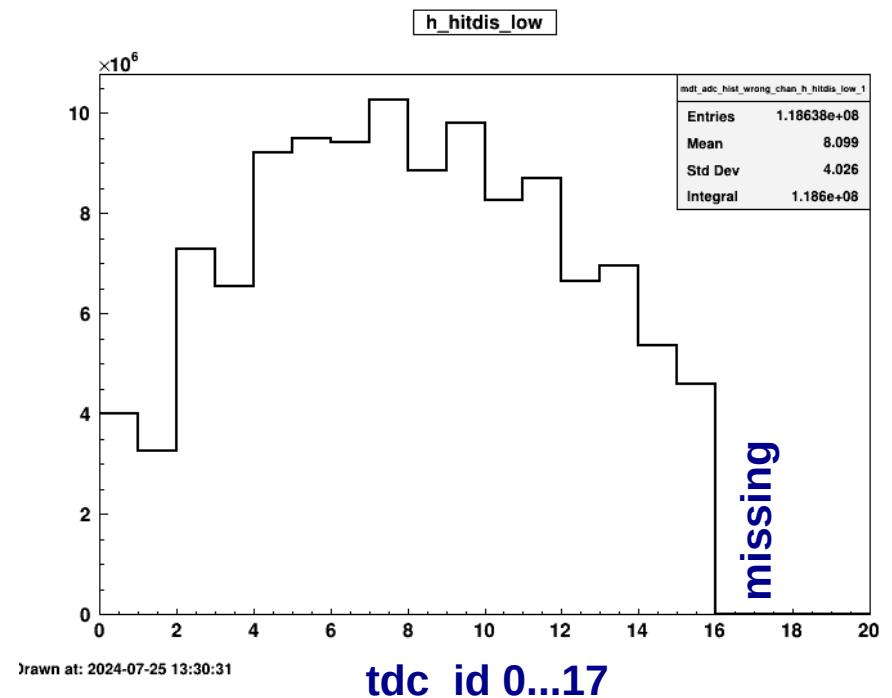
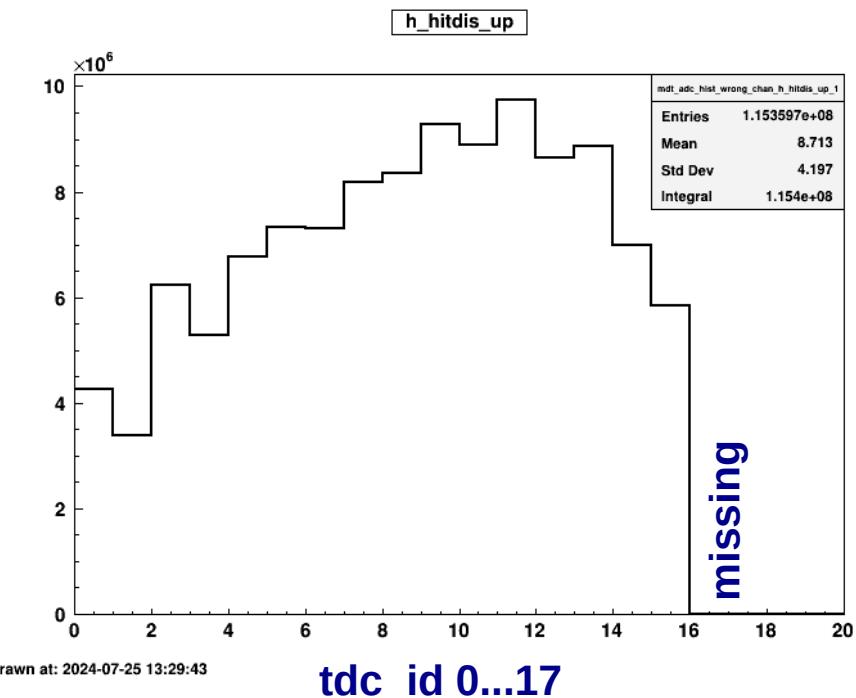
Bunch ID: Trigger time tag counter when separator was generated.

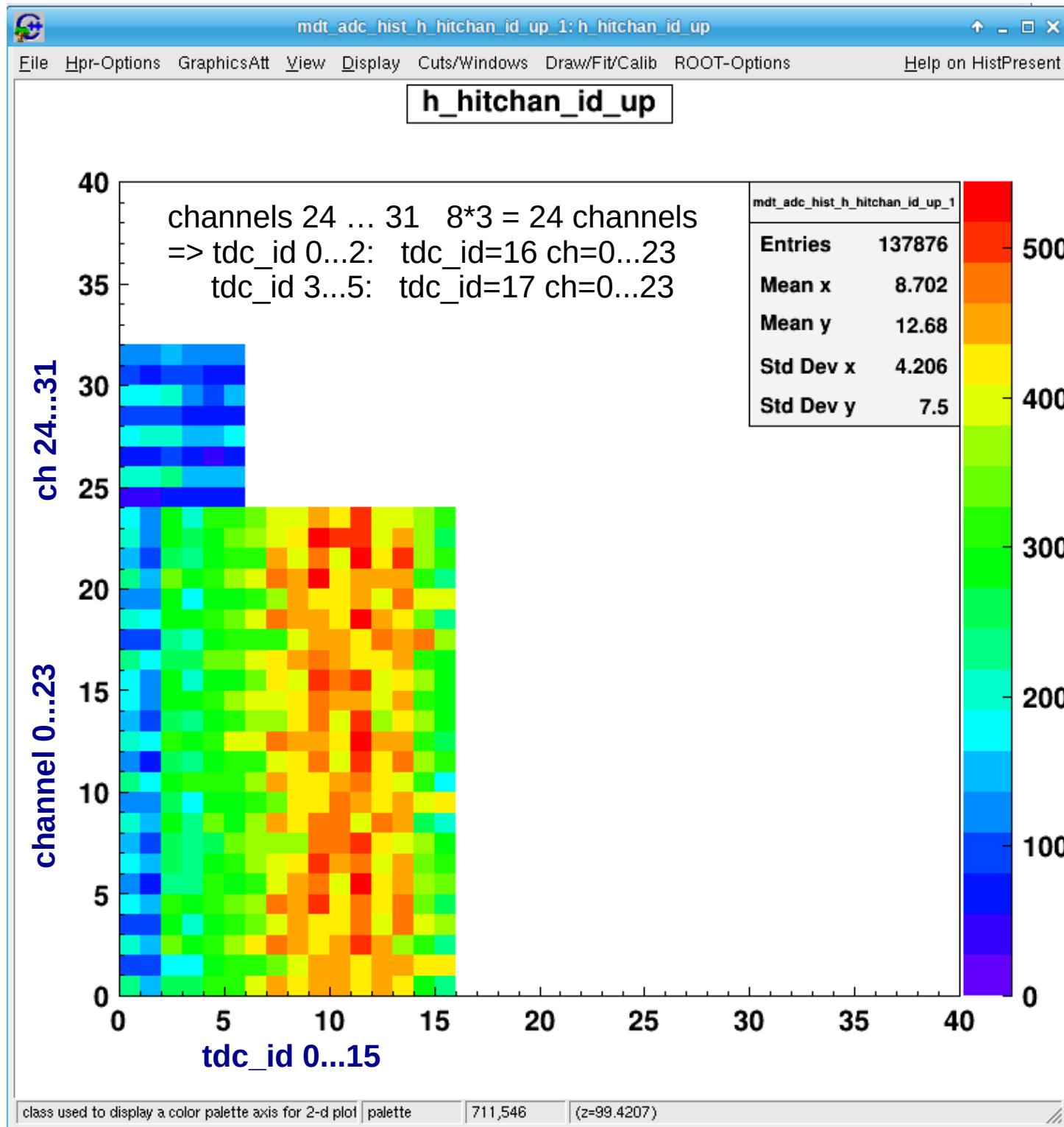
Buffer Occupancy

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
0	1	1	1																														

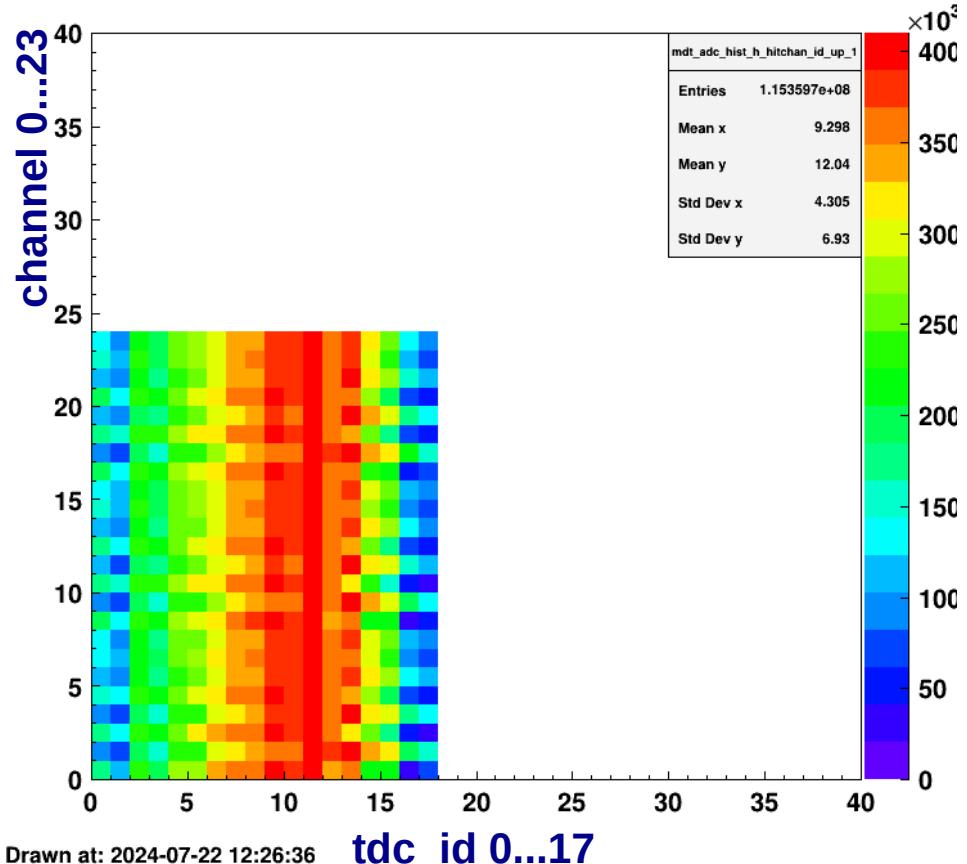
L1 occupancy: L1 buffer occupancy.

R: Read-out FIFO full.

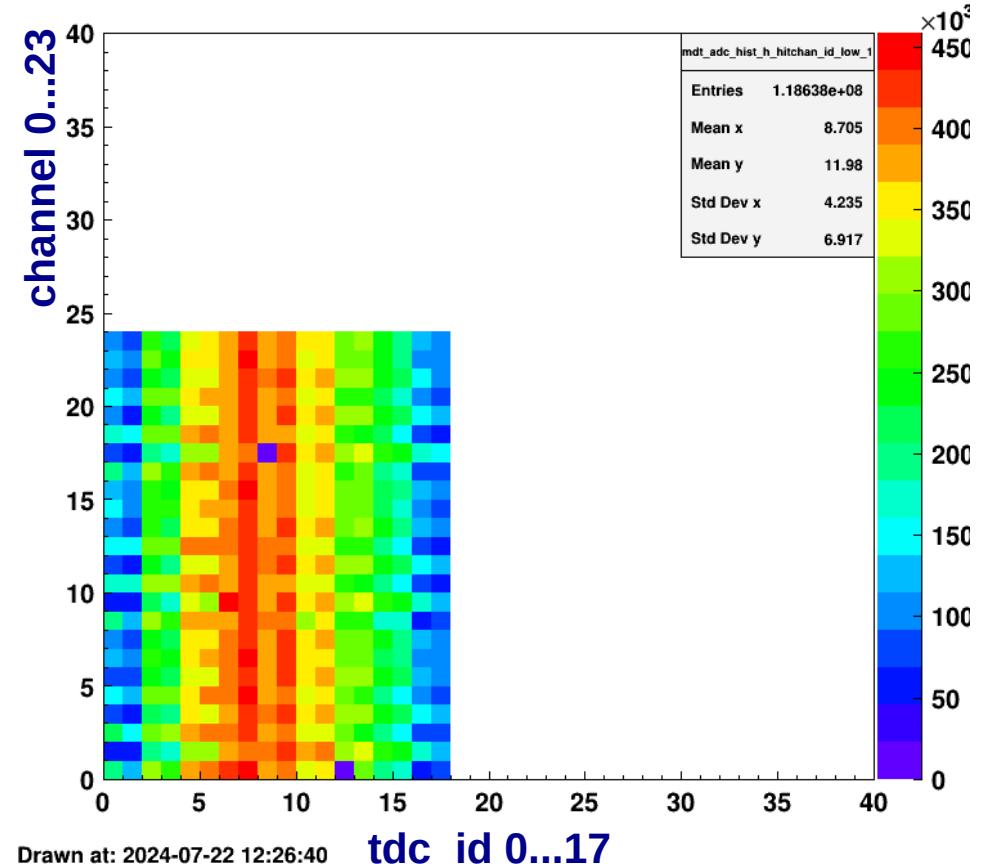




h_hitchan_id_up



h_hitchan_id_low

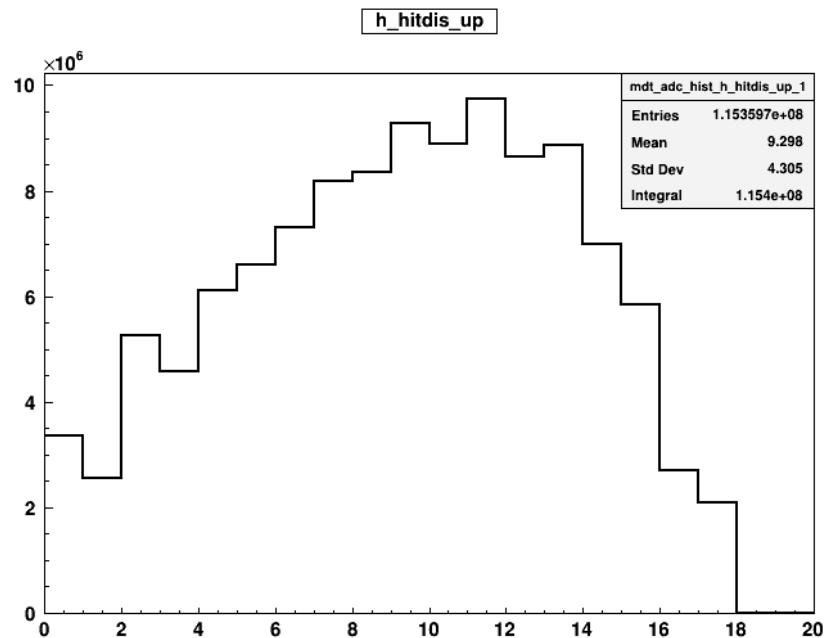


Drawn at: 2024-07-22 12:26:36

tdc_id 0...17

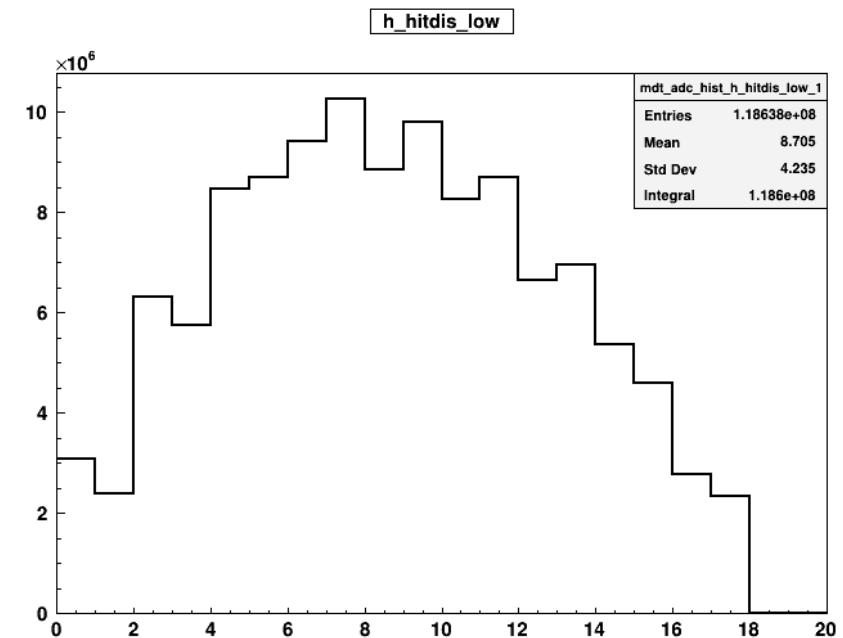
Drawn at: 2024-07-22 12:26:40

tdc_id 0...17



Drawn at: 2024-07-22 12:25:54

tdc_id 0...17



Drawn at: 2024-07-22 12:26:29

tdc_id 0...17