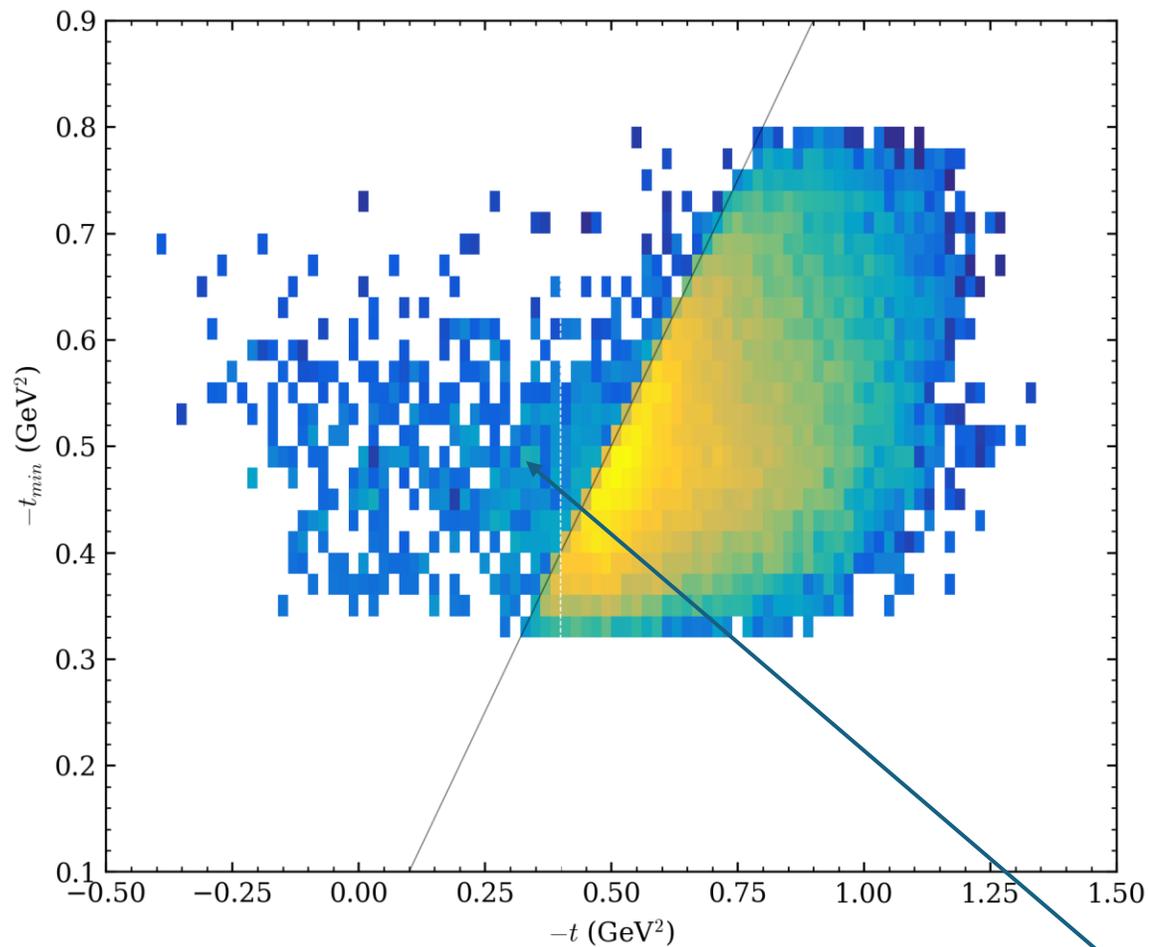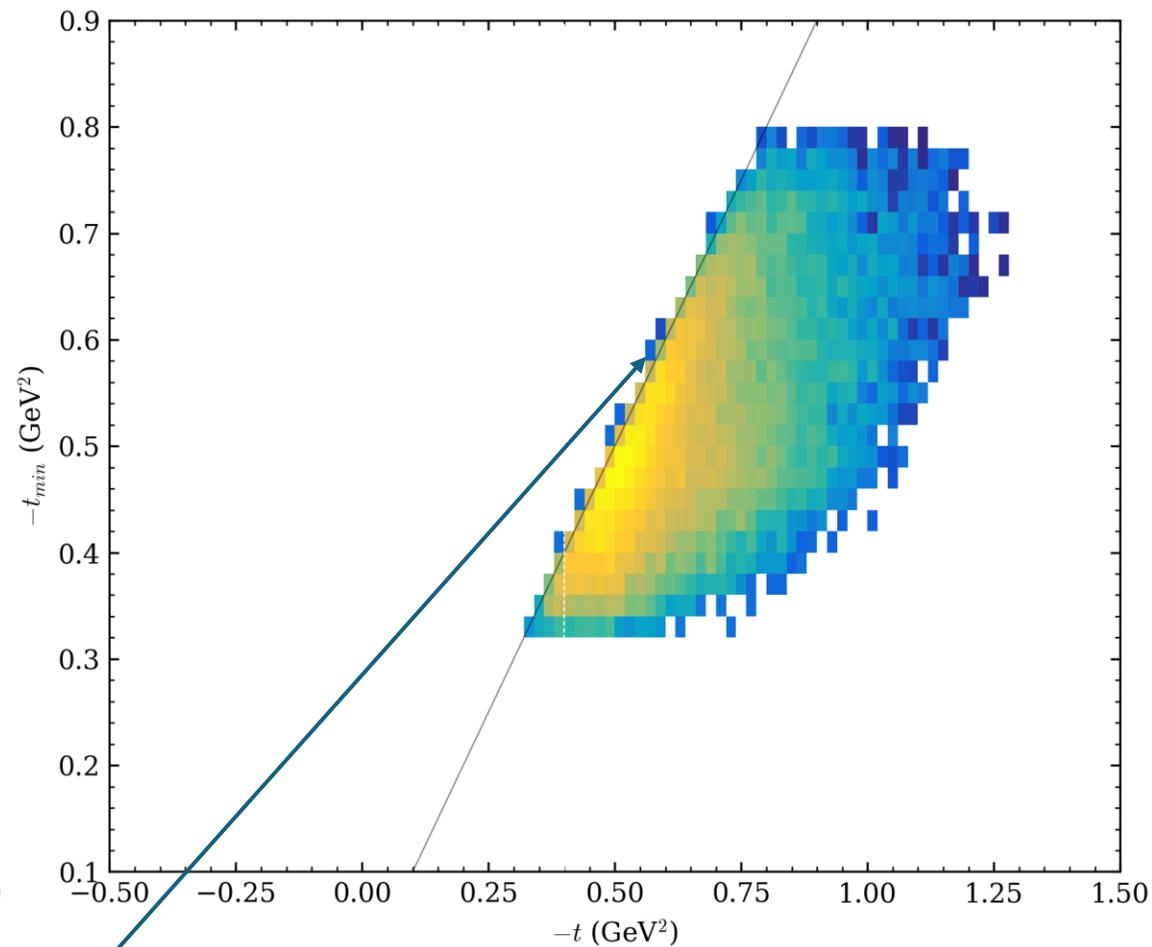# SIMC Center High e (Q^2=4.4,W=2.74)

$$-t = -(p - q)^2$$
$$(-t)_{min} = (E_1^2 - E_3^2) - (\vec{p}_1 - \vec{p}_2)^2$$

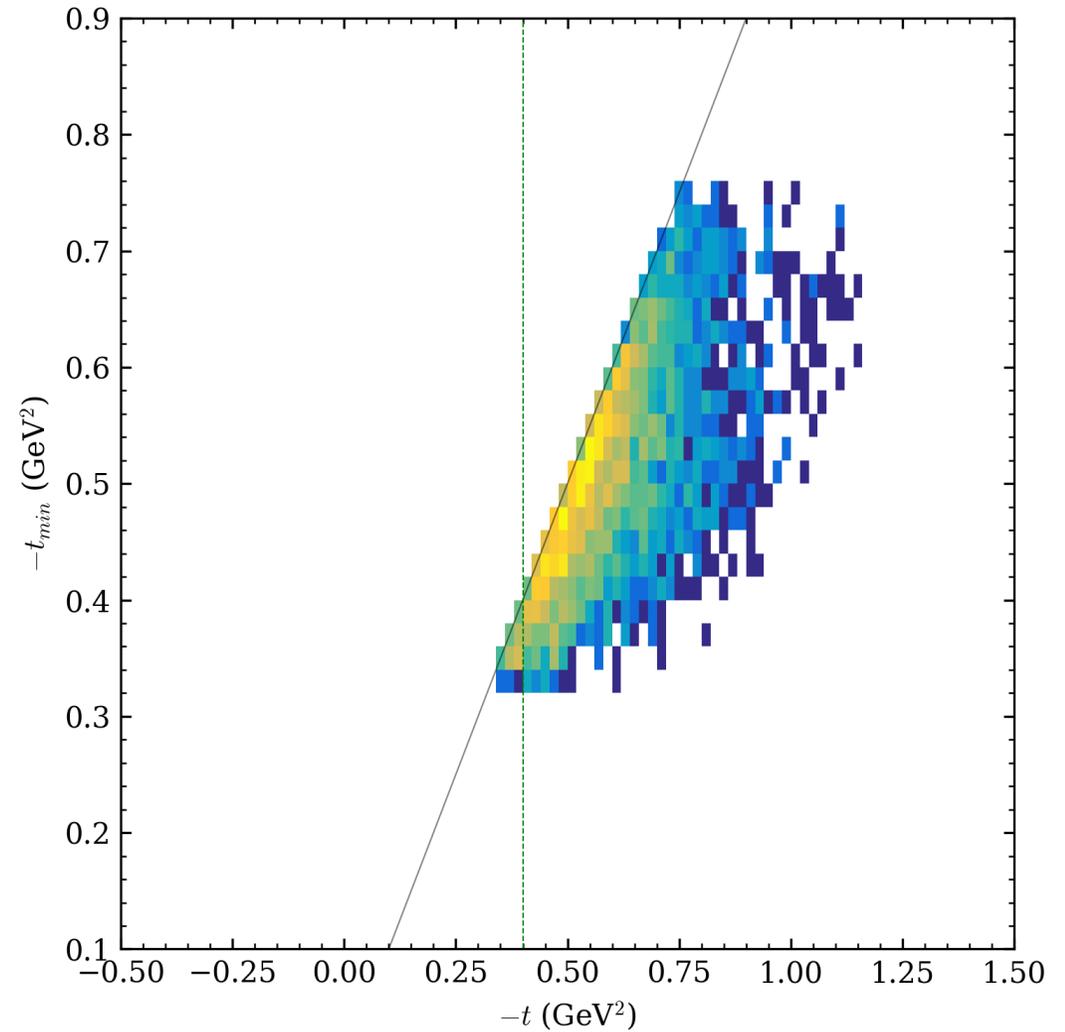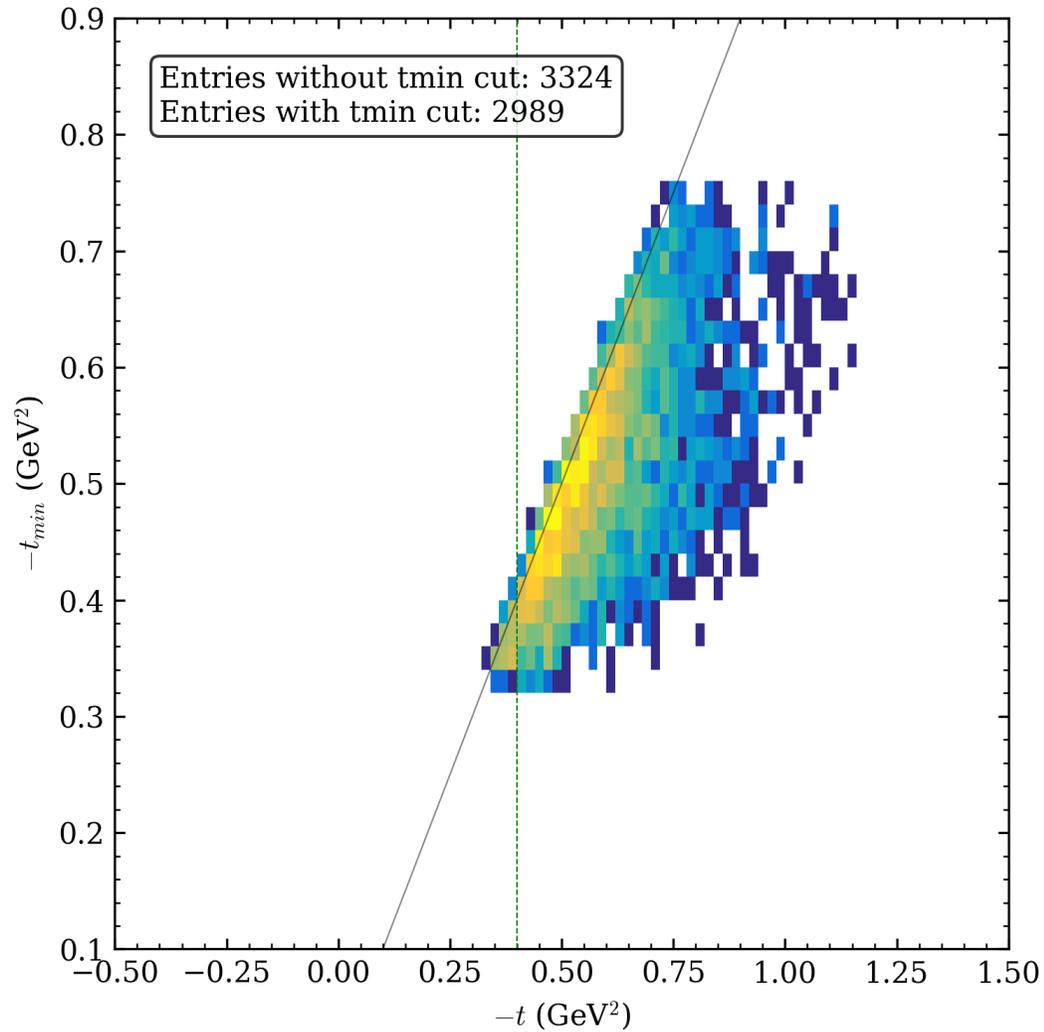All cut except mm cut   Bad   All cuts
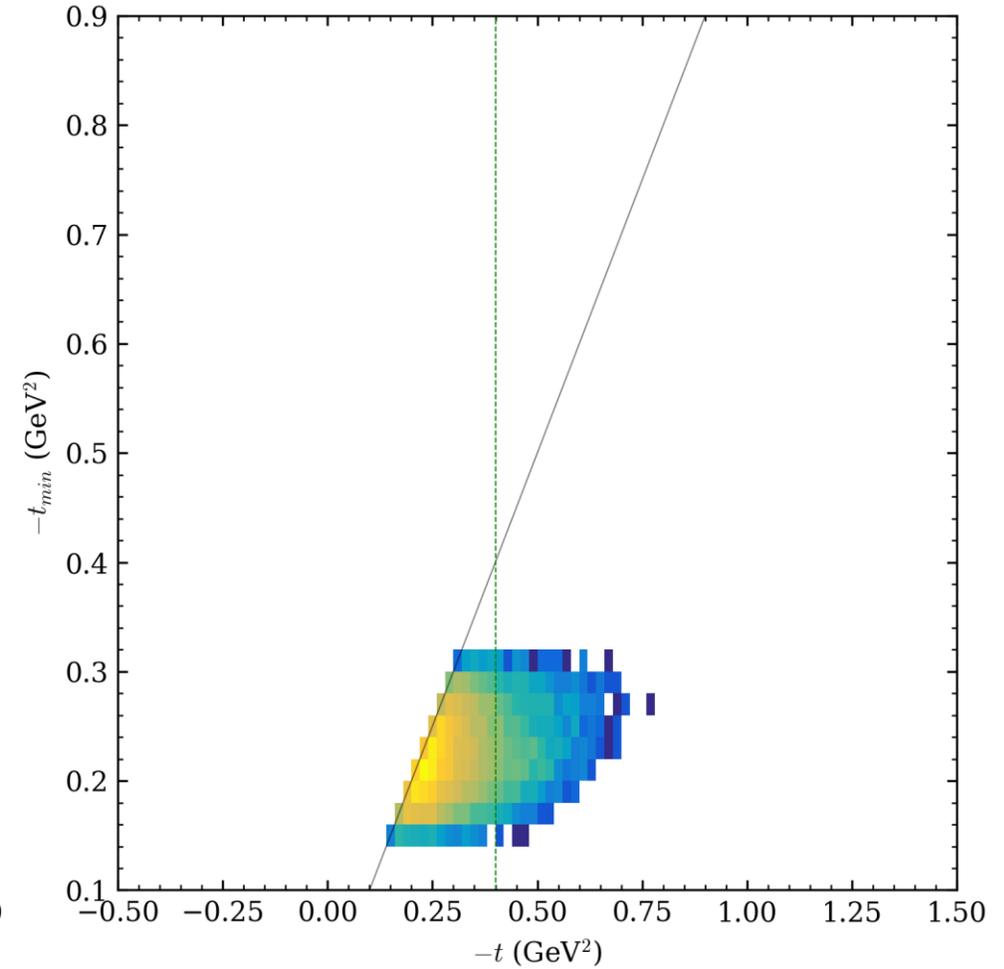
Data Center High e (Q^2=4.4,W=2.74)

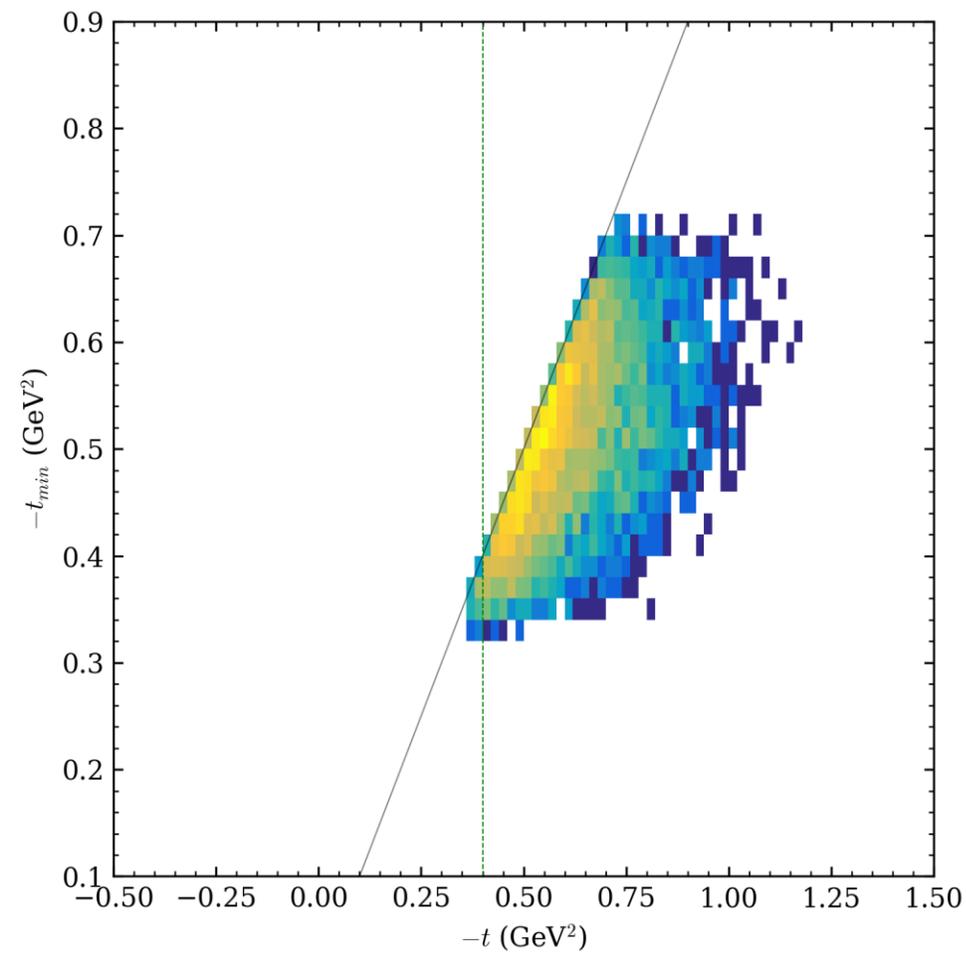Entries without tmin cut: 3324
Entries with tmin cut: 2989

- About 10 % are bad

Data Center High e (Q^2=3.0,W=3.14)
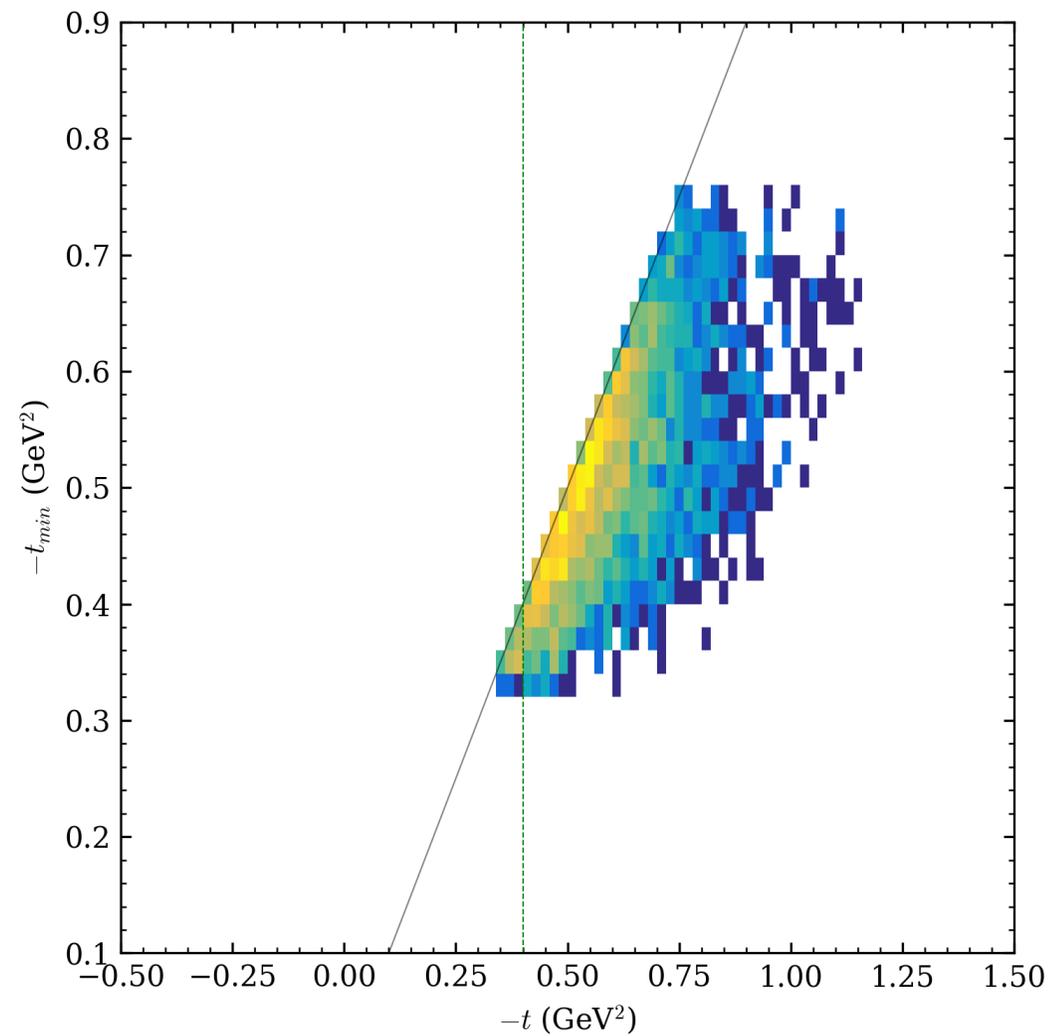

Entries without tmin cut: 13559
Entries with tmin cut: 12764

- About 10 % are bad

Data Center High e (Q^2=3.0,W=2.32)

Entries without tmin cut: 6185
Entries with tmin cut: 6076

Data Center High e (Q^2=4.4,W=2.74)

Entries without tmin cut: 3324
Entries with tmin cut: 2989
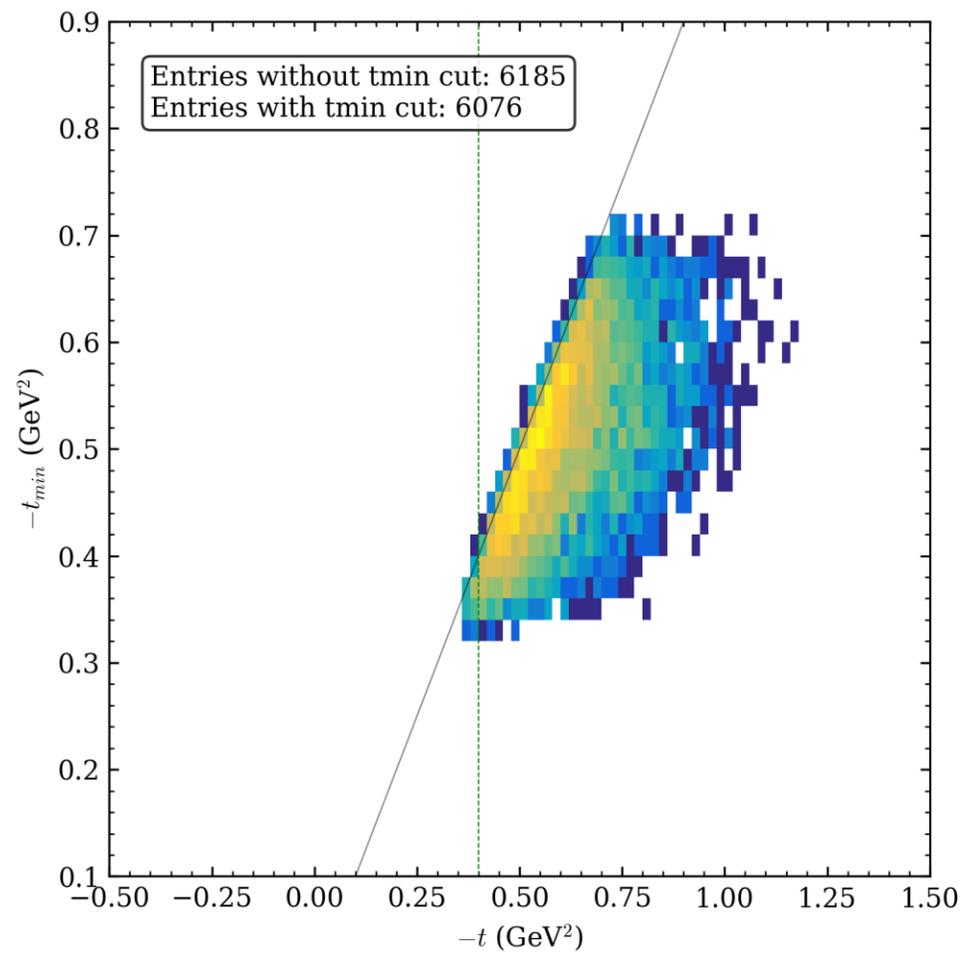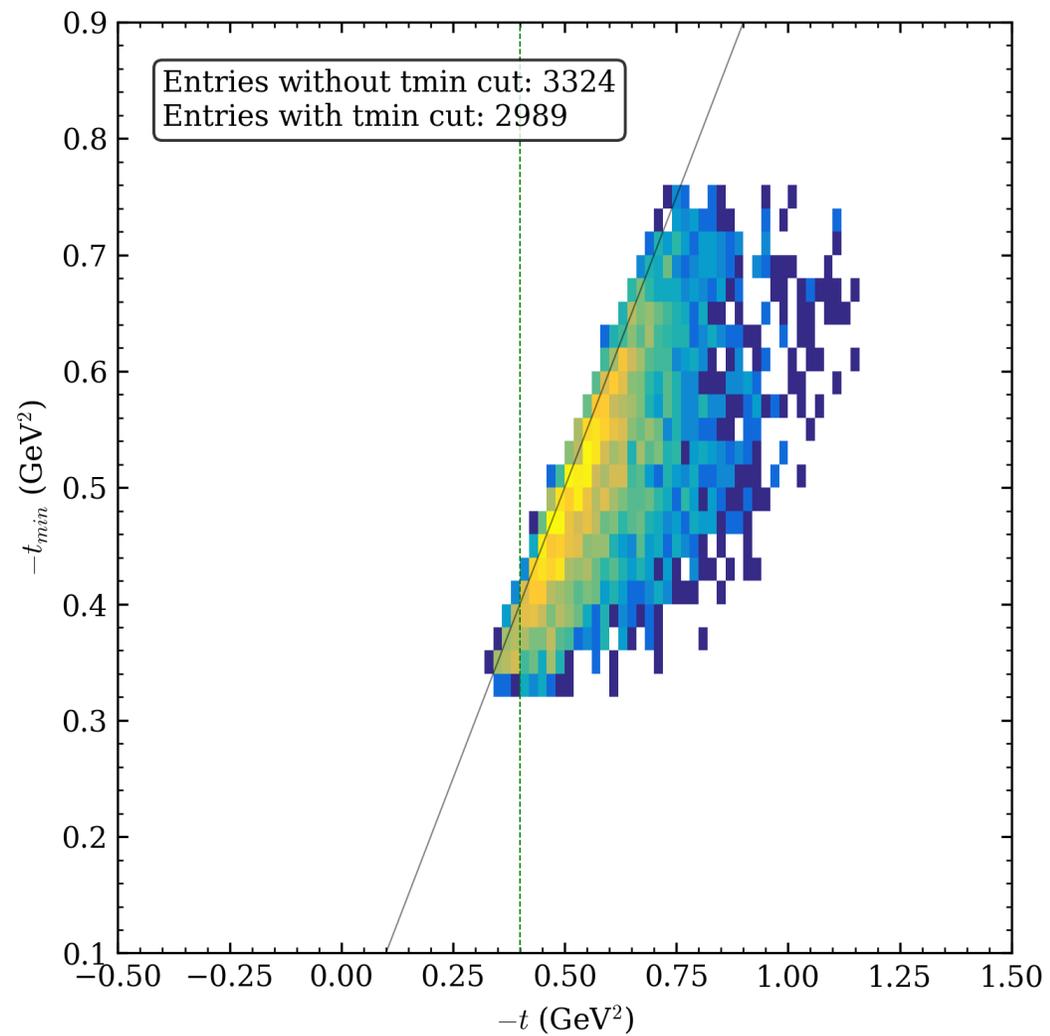
Data Center High e (Q^2=2.115,W=2.95)

Entries without tmin cut: 2898
Entries with tmin cut: 2662
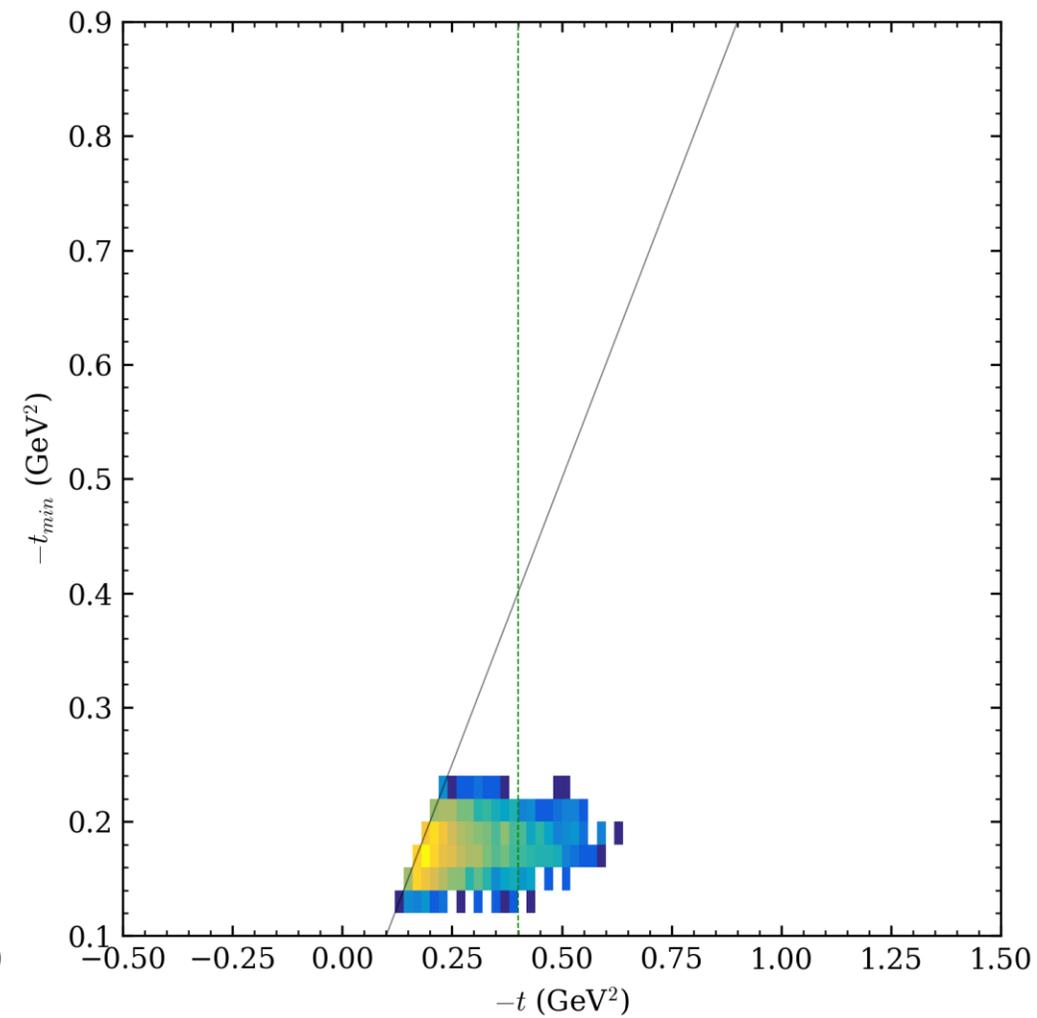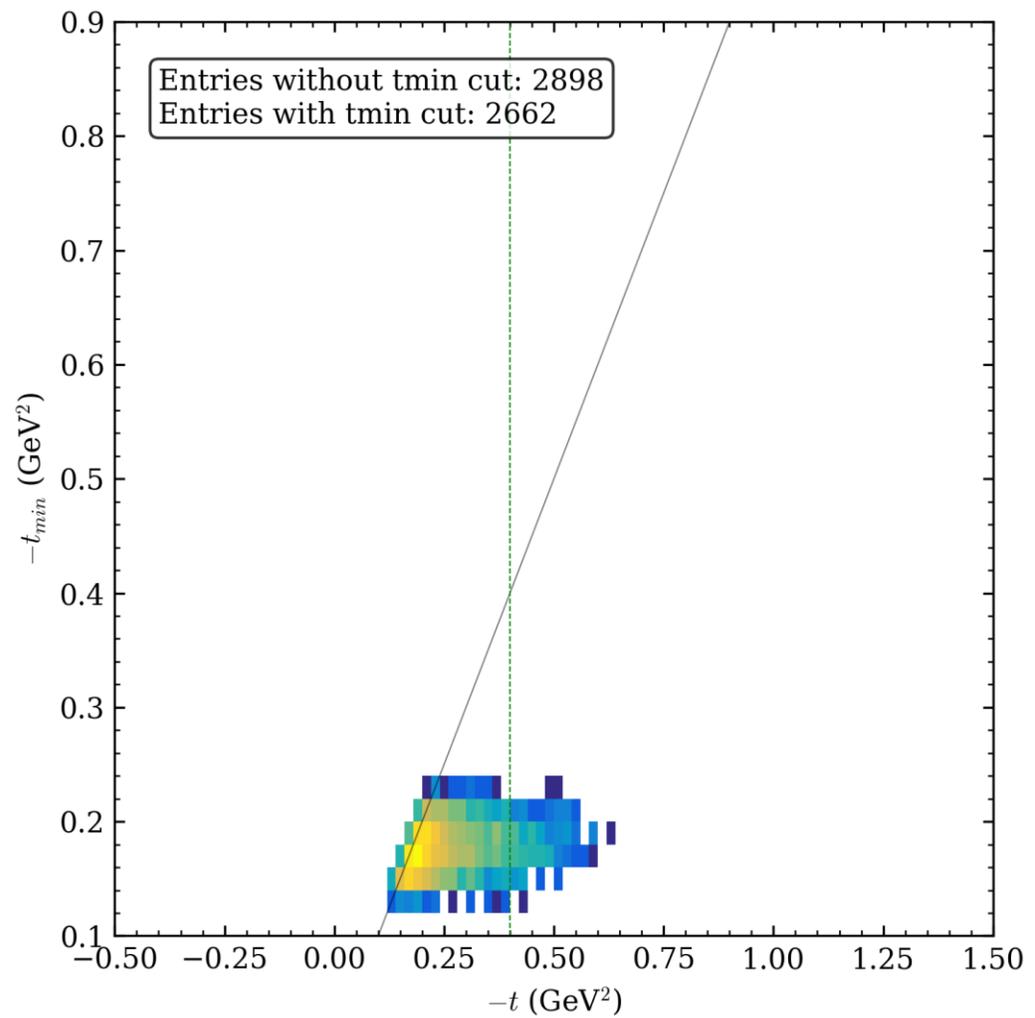
Data Center High e (Q^2=5.5,W=3.02)

Entries without tmin cut: 1251
Entries with tmin cut: 1194
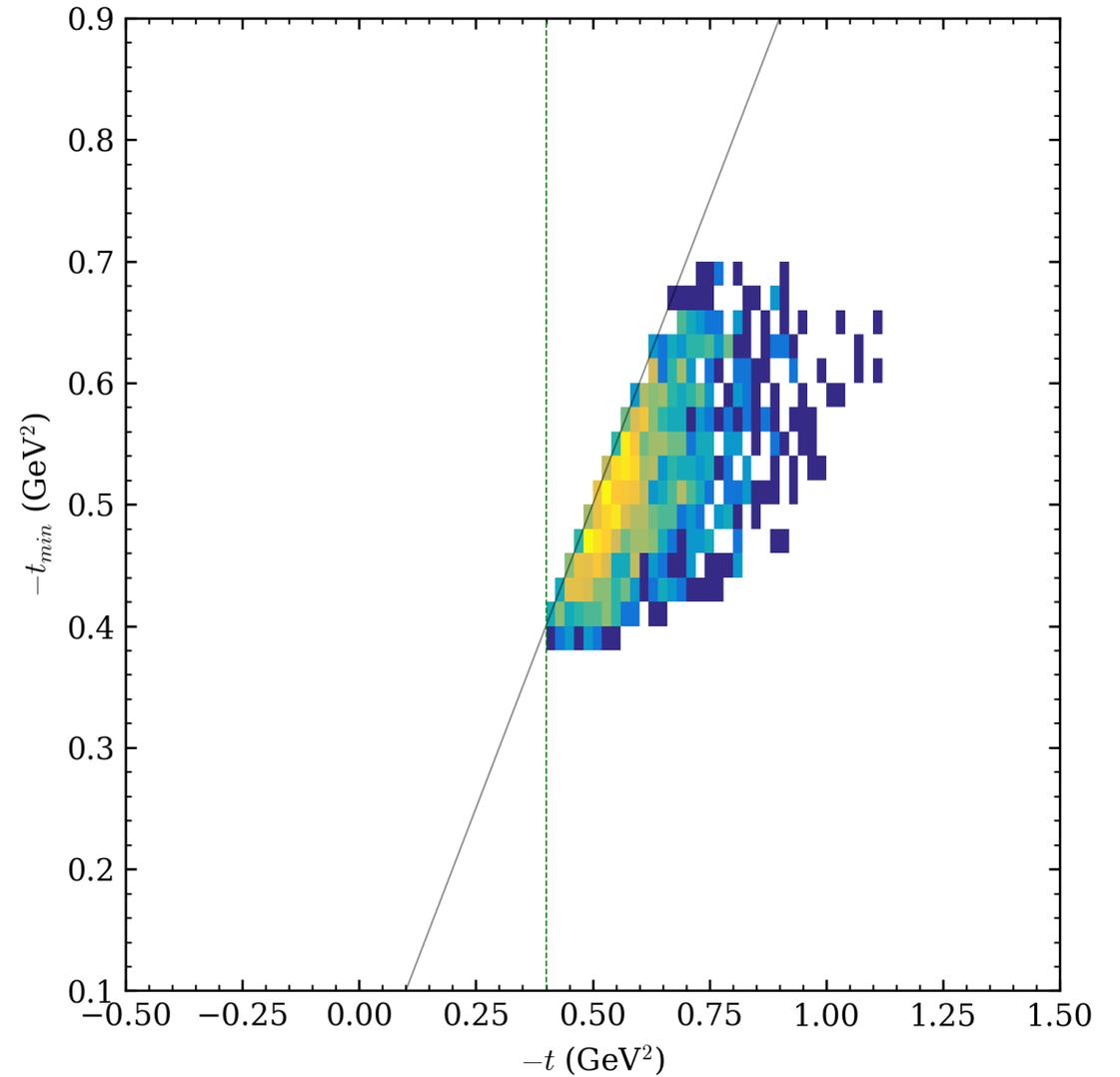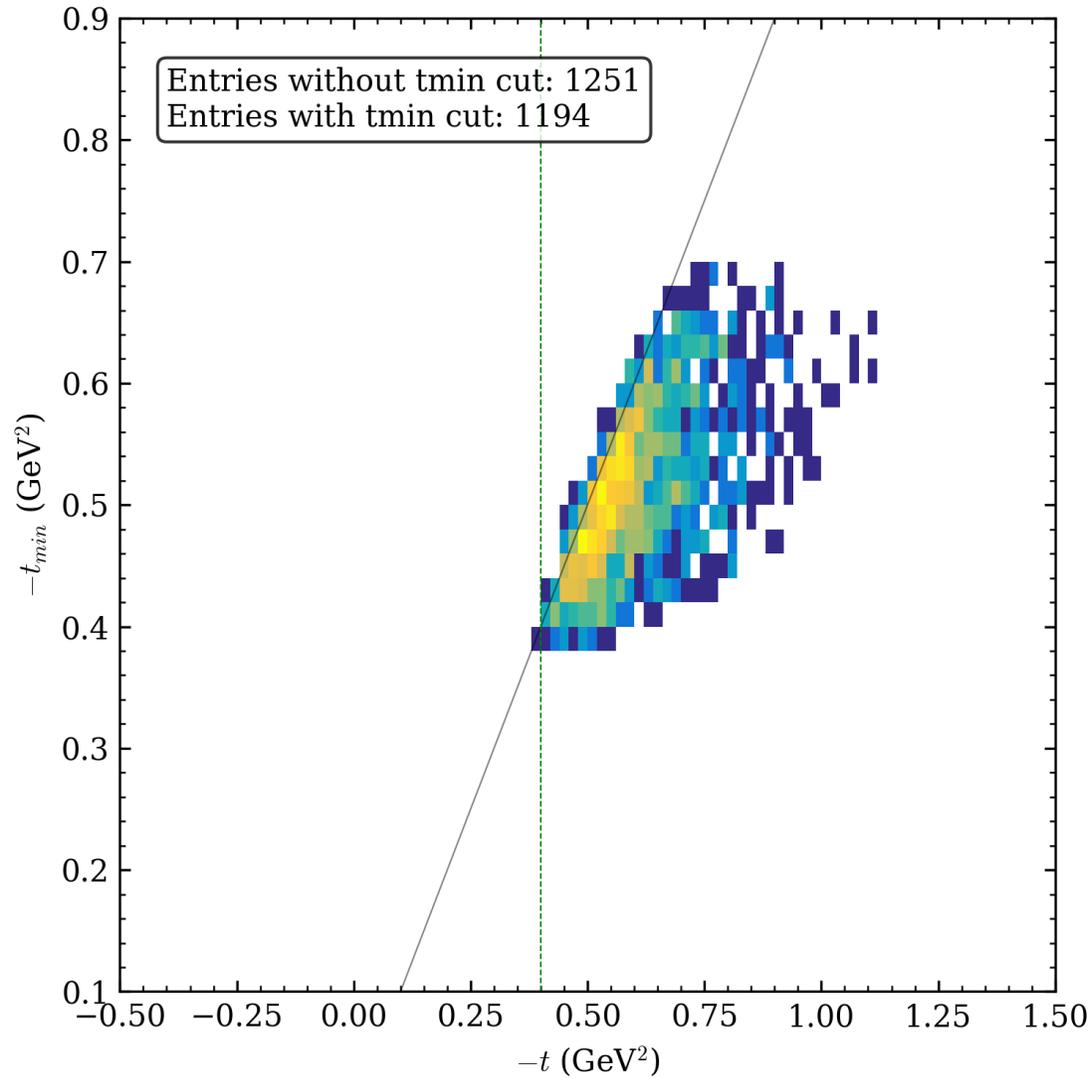
- About 5 % are bad

Data Center Low e (Q^2=4.4,W=2.74)

Entries without tmin cut: 5321
Entries with tmin cut: 5278
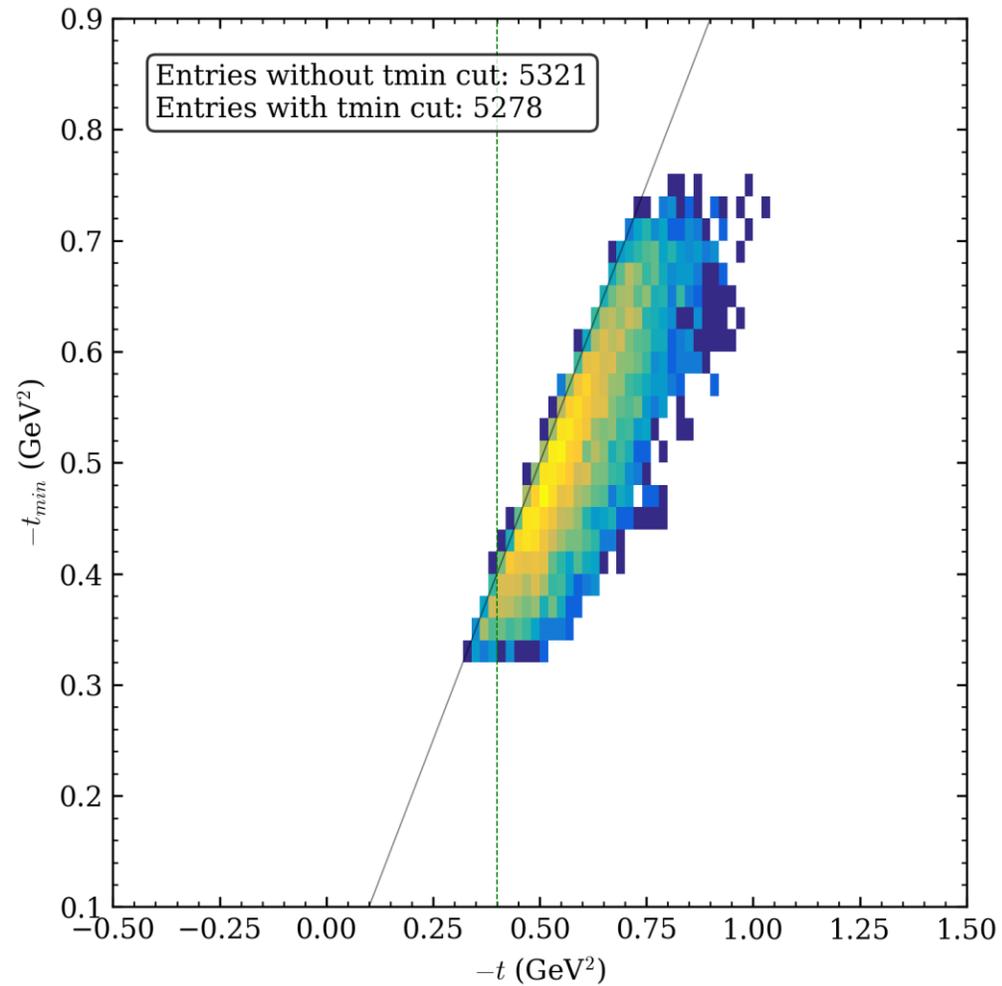
- A few in center low e

Data left high e (Q^2=4.4,W=2.74)

Entries without tmin cut: 2349
Entries with tmin cut: 2337
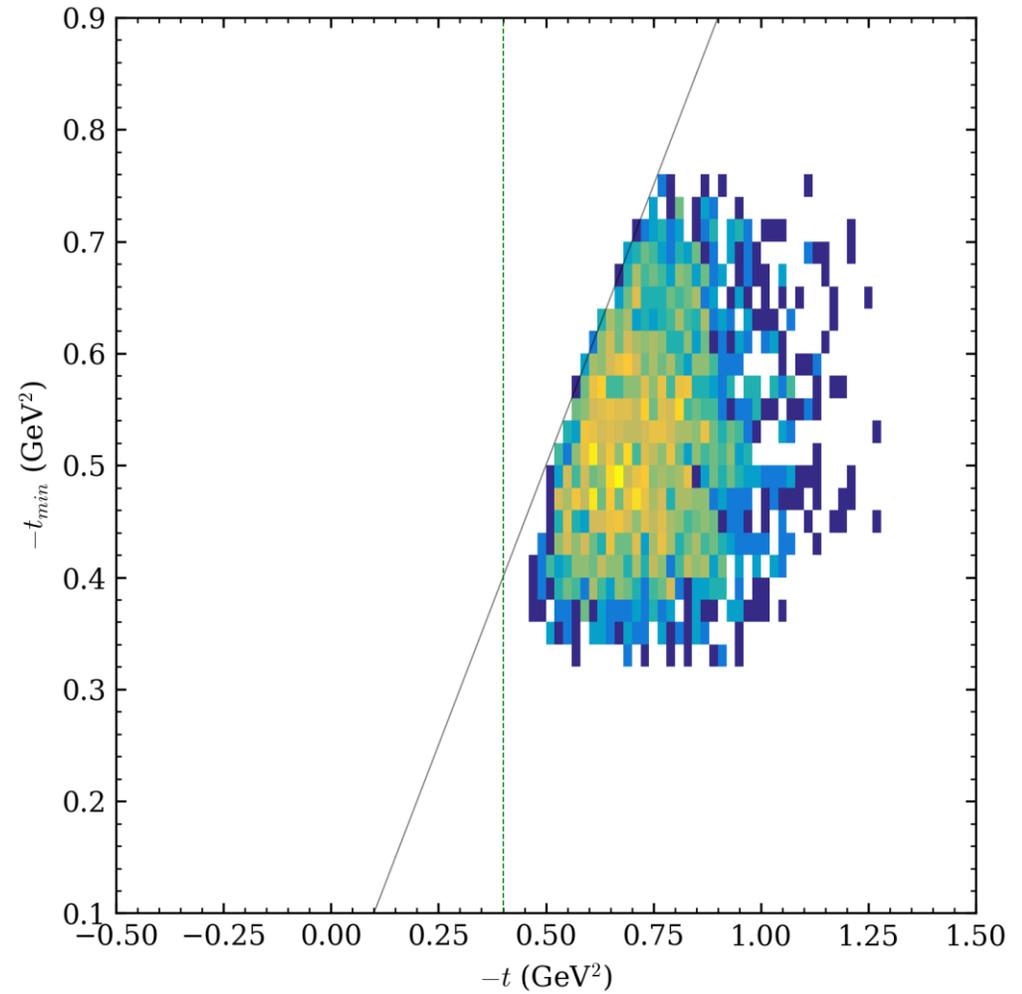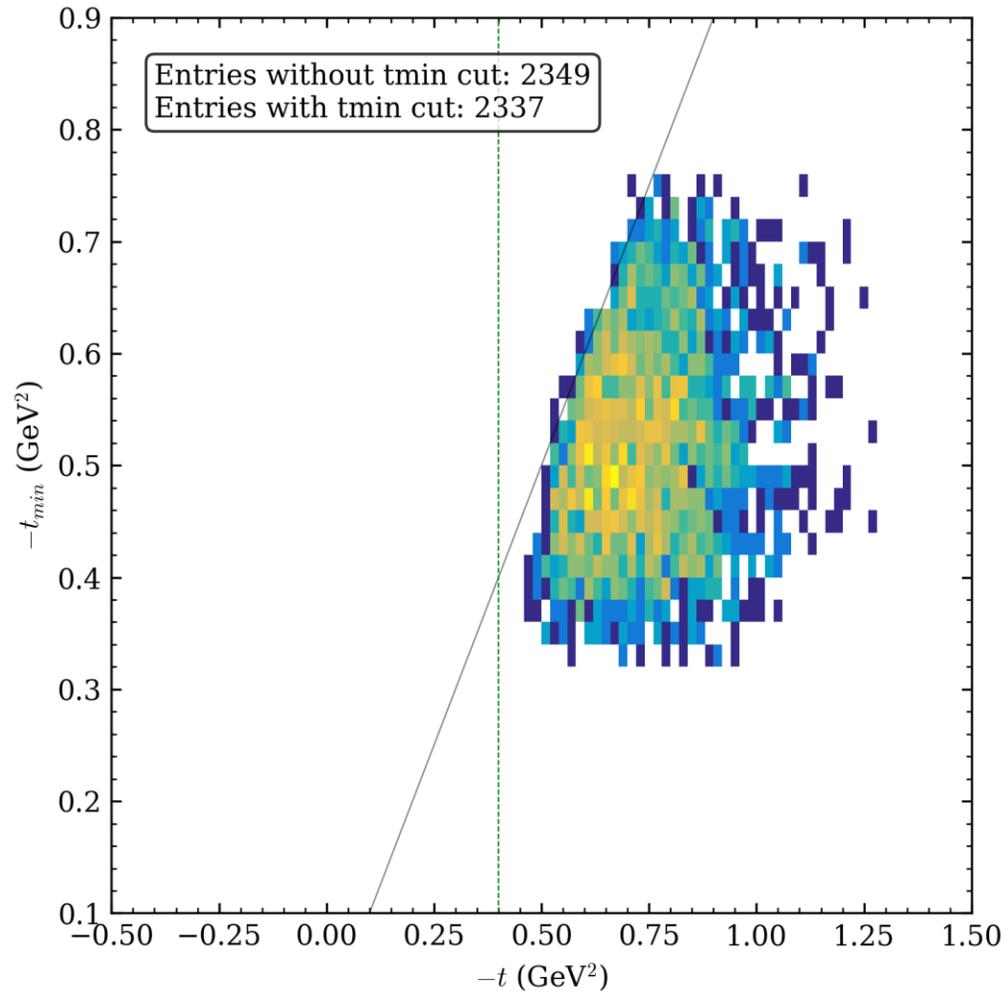
- Not much in left, right

Applying shifts in t due to mm shifts (calc. from Garth

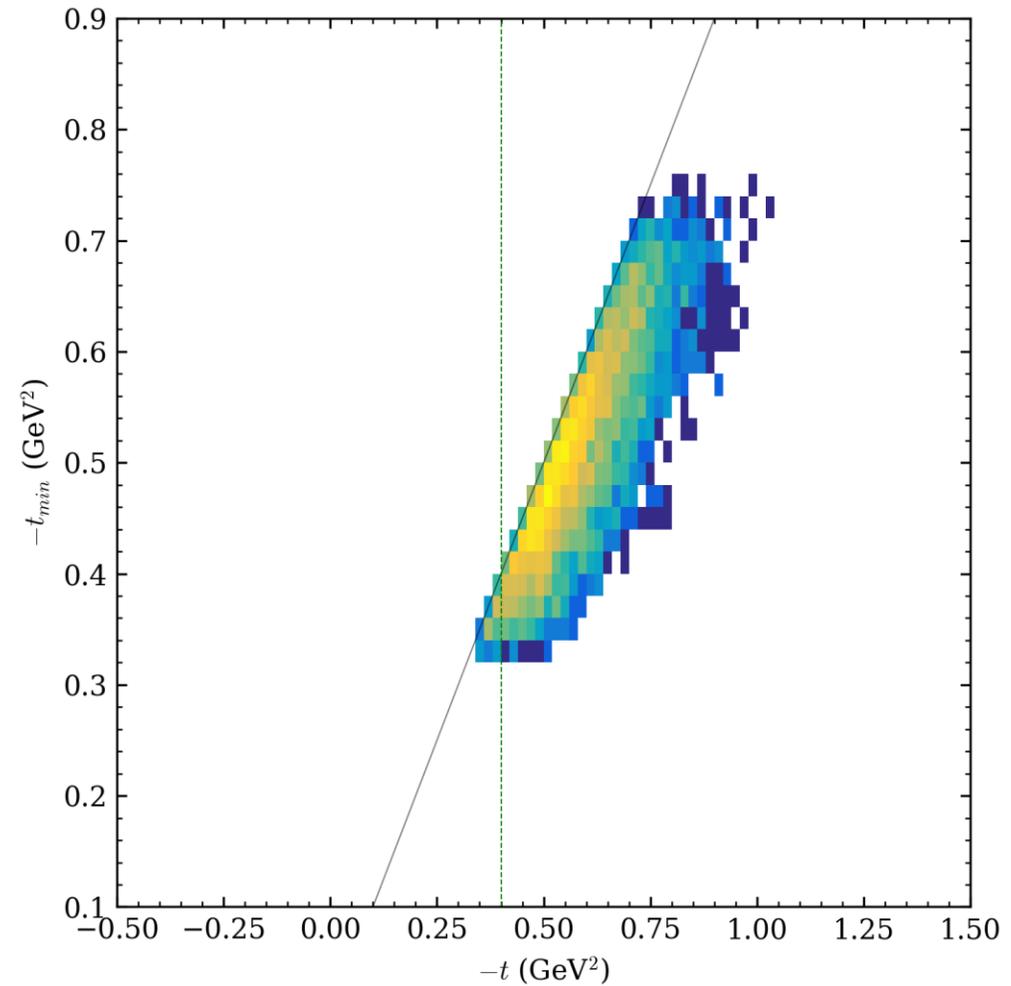|	Q2_str	W_str	shms	epsilon	Q2	W	Ebeam	MMshift	t-shift
0	5p5	3p02	left	low	5.500	3.02	9.404	0.00300	-0.01069
1	5p5	3p02	left	high	5.500	3.02	10.588	0.00801	-0.02832
2	5p5	3p02	right	high	5.500	3.02	10.588	0.00100	-0.00358
3	5p5	3p02	center	low	5.500	3.02	9.404	-0.00100	0.00344
4	5p5	3p02	center	high	5.500	3.02	10.588	0.00701	-0.02377
5	4p4	2p74	left	low	4.400	2.74	8.204	0.00100	-0.00357
6	4p4	2p74	left	high	4.400	2.74	10.588	0.01101	-0.03869
7	4p4	2p74	right	high	4.400	2.74	10.588	0.00701	-0.02479
8	4p4	2p74	center	low	4.400	2.74	8.204	-0.00200	0.00696
9	4p4	2p74	center	high	4.400	2.74	10.588	0.01001	-0.03416
10	3p0	3p14	left	low	3.000	3.14	8.204	0.00100	-0.00194
11	3p0	3p14	left	high	3.000	3.14	10.588	0.01201	-0.02281

Right shift -t

$$(-t)_{new} = (-t)_{old} - shift$$

Data Center High e (Q^2=4.4,W=2.74)

$$(-t)_{new} = (-t)_{old} - shift$$

$$-t = -(p - q)^2$$
$$(-t)_{min} = (E_1^2 - E_3^2) - (\vec{p}_1 - \vec{p}_2)^2$$

Entries without tmin cut: 3324
Entries with tmin cut: 3323

Without cut $(-t)_{new} \geq (-t)_{min}$

With cut $(-t)_{new} \geq (-t)_{min}$