

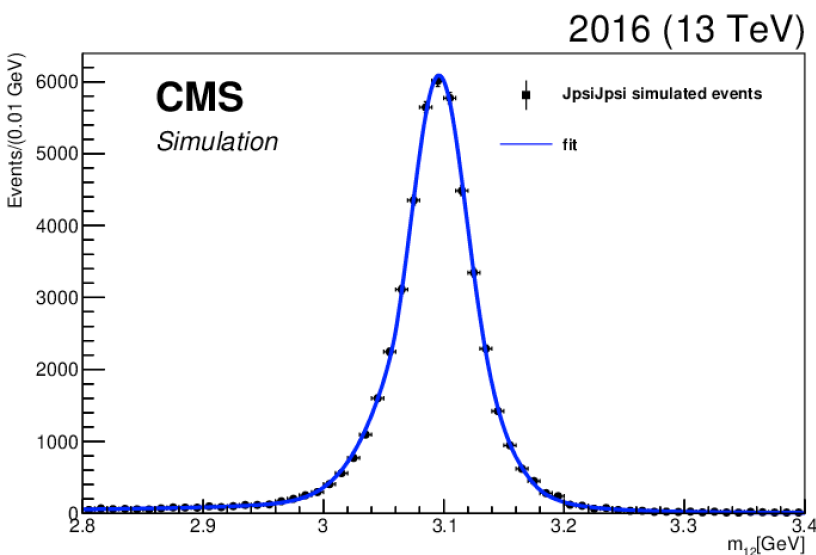


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Double Jpsi 2016 and 2017/2018 comparison

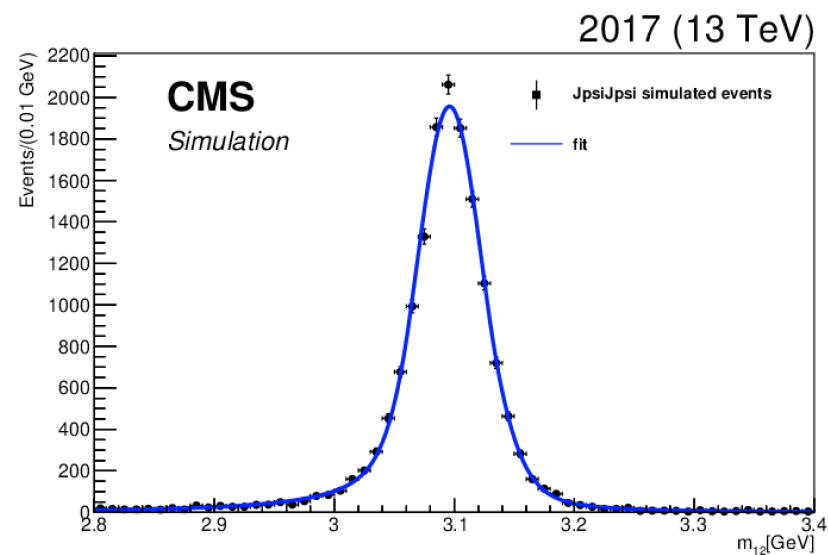
Taozhe YU



```

1 Jpsi_mean      3.09603e+00
2 Jpsi_width1    2.11755e-02
3 Jpsi_width2    4.18281e-02
4 alpha_1        1.61838e+00
5 alpha_2        -1.93238e+00
6 g1frac         4.69514e-01
7 n_1            9.19863e-01
8 n_2            2.12023e+00

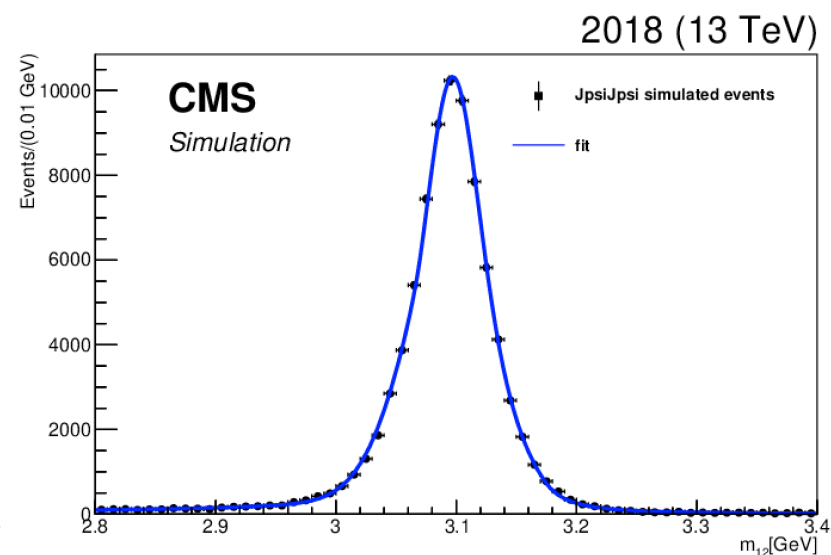
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1 Jpsi_mean      3.09603e+00
2 Jpsi_width1    2.96586e-02
3 Jpsi_width2    2.53449e-02
4 alpha_1        1.13246e+00
5 alpha_2        -1.28423e+00
6 g1frac         5.61758e-01
7 n_1            2.33462e+00
8 n_2            2.87961e+00

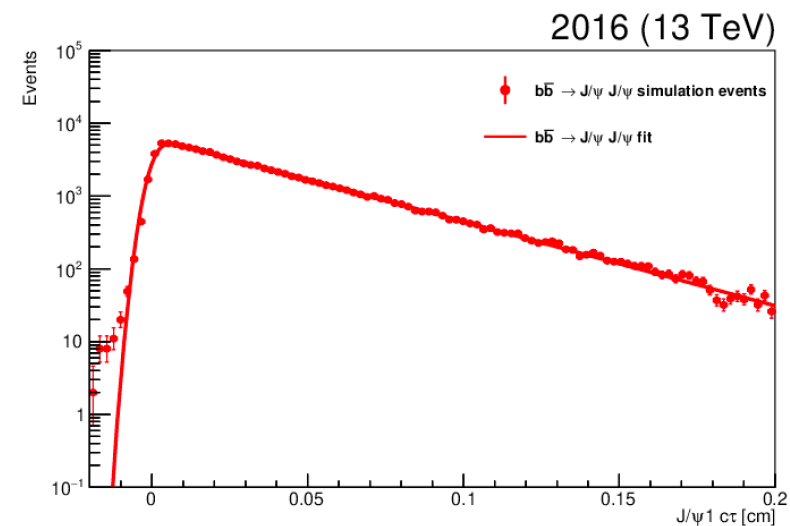
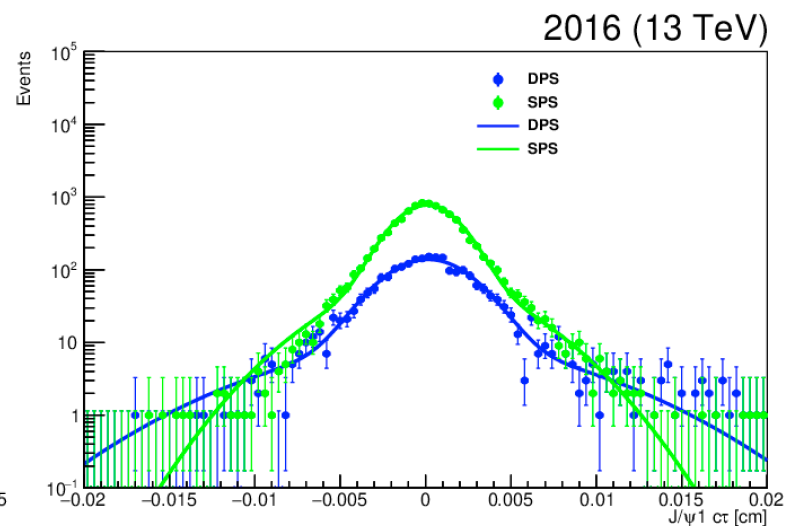
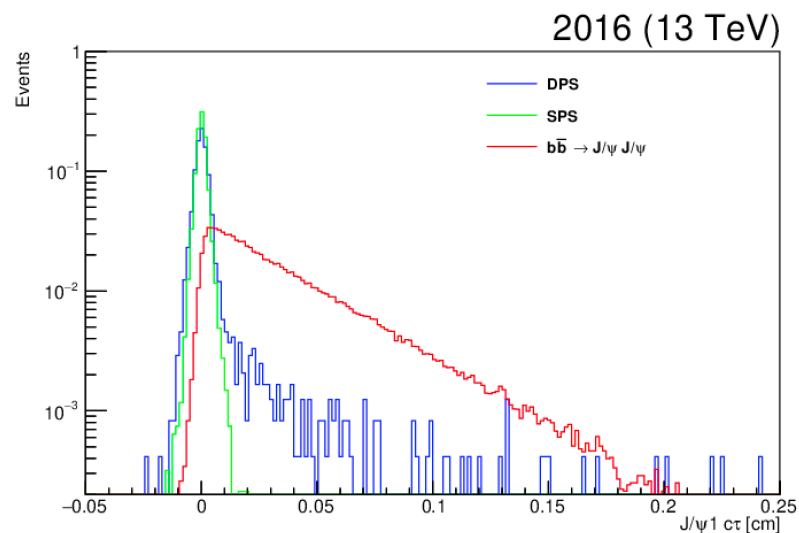
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1 Jpsi_mean      3.09711e+00
2 Jpsi_width1    1.91391e-02
3 Jpsi_width2    3.87572e-02
4 alpha_1        1.34244e+00
5 alpha_2        -2.04078e+00
6 g1frac         3.56811e-01
7 n_1            1.01635e+00
8 n_2            1.96011e+00

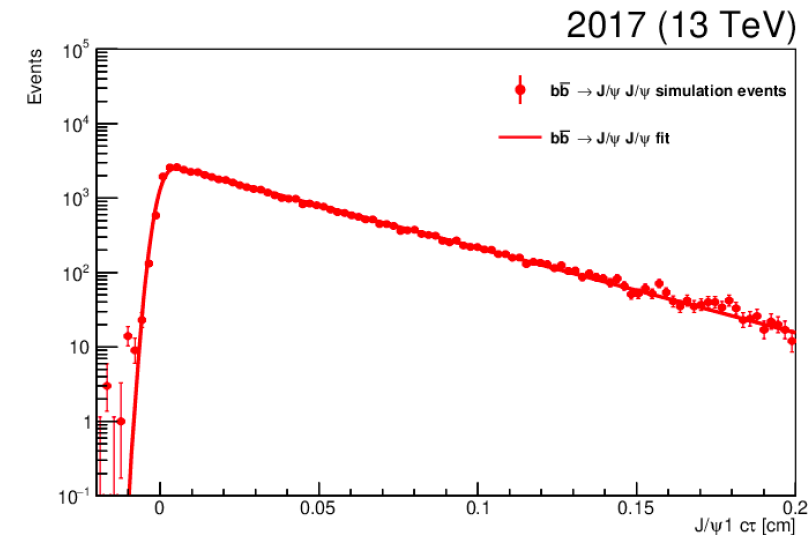
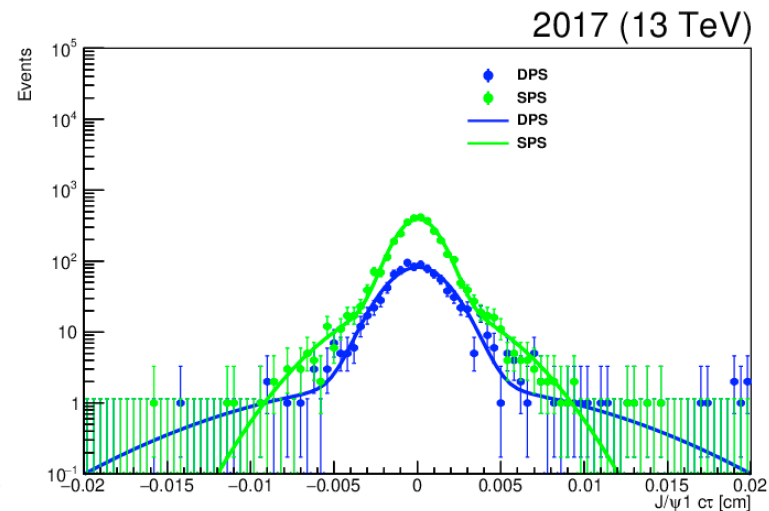
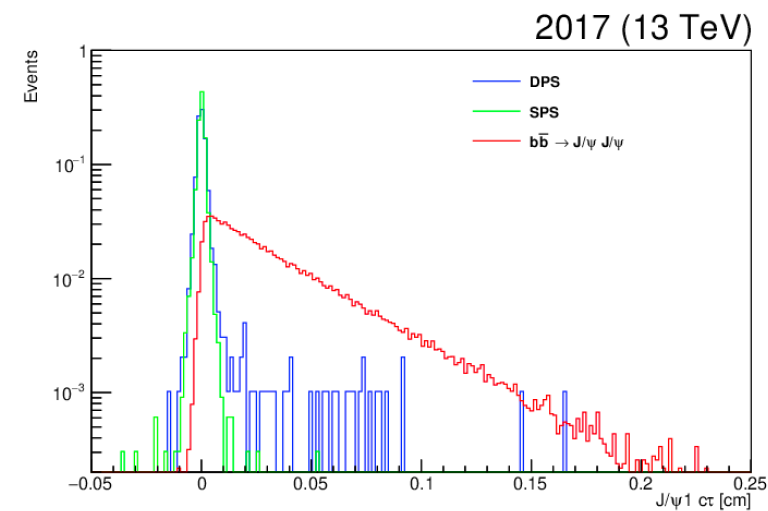
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```
1 SPS_mean1 7.48031e-05 2.1
2 SPS_width1 1.72185e-03 3.2
3 SPS_width2 4.36086e-03 1.4
4 gfrac_SPS_gauss 8.16845e-01
```

```
1 DPS_mean1 1.51471e-04 5.9
2 DPS_width1 2.33755e-03 7.4
3 DPS_width2 7.41226e-03 5.2
4 gfrac_DPS_gauss 8.27114e-01
```

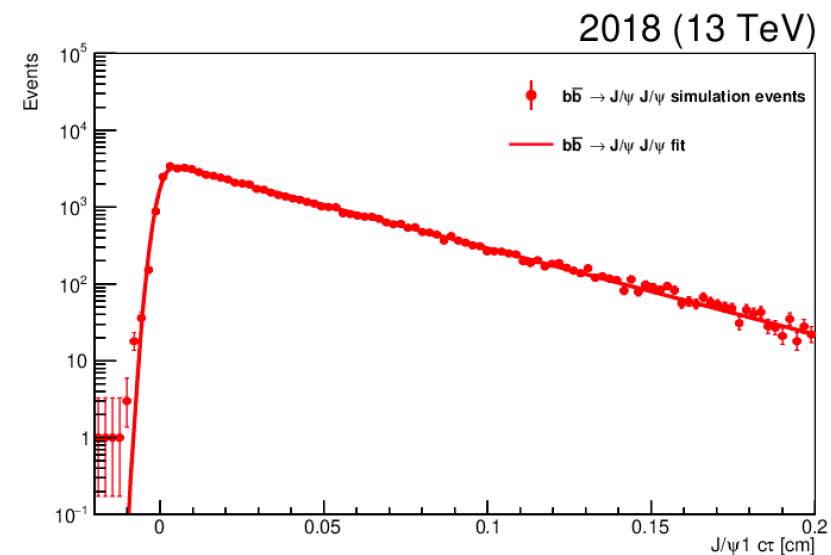
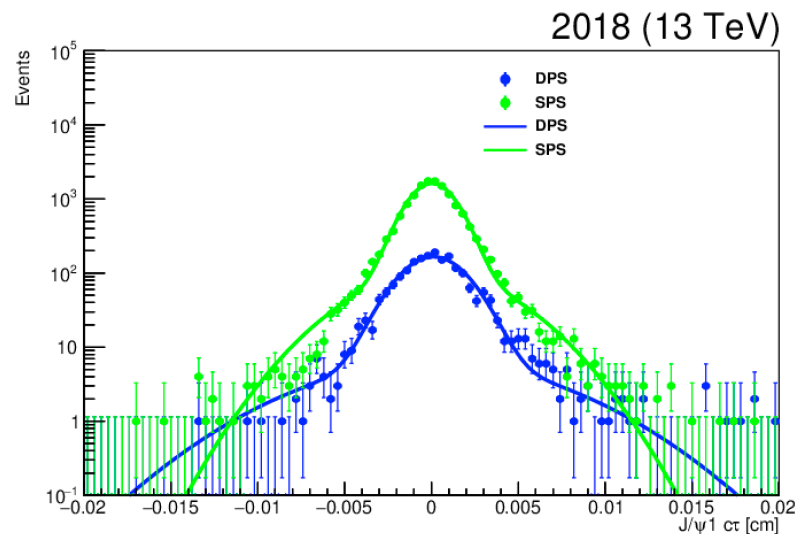
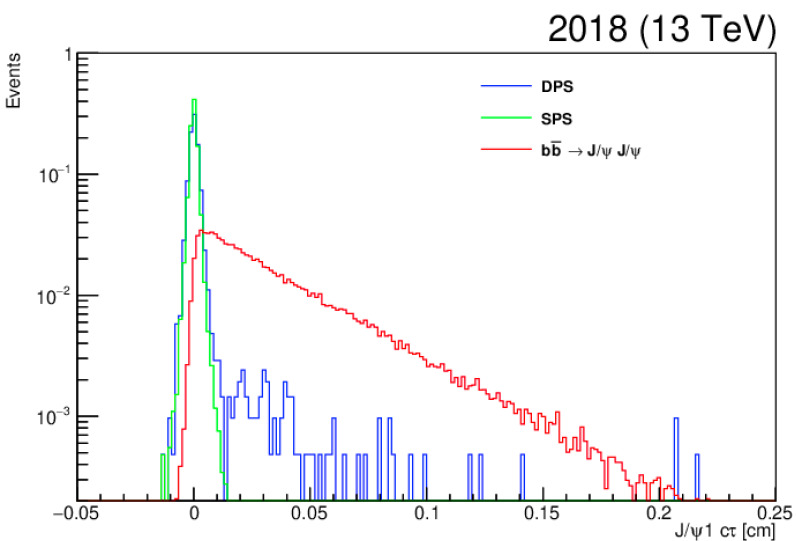
```
1 BBbar_Mean 1.86374e-03
2 BBbar_Sigma 3.10618e-03
3 BBbar_Tau -2.66226e+01
```



1	SPS_mean1	4.29280e-05	2.5
2	SPS_width1	1.17072e-03	3.2
3	SPS_width2	3.59832e-03	1.6
4	gfrac_SPS_gauss	8.17754e-01	

1	BBbar_Mean	1.85106e-03
2	BBbar_Sigma	2.50225e-03
3	BBbar_Tau	-2.62338e+01

1	DPS_mean1	2.15357e-05	6.1
2	DPS_width1	1.70130e-03	6.8
3	DPS_width2	8.26364e-03	1.1
4	gfrac_DPS_gauss	9.00329e-01	



```

1 SPS_mean1 2.73067e-05 1.2
2 SPS_width1 1.28259e-03 1.7
3 SPS_width2 3.82143e-03 9.8
4 gfrac_SPS_gauss 8.43960e-01

```

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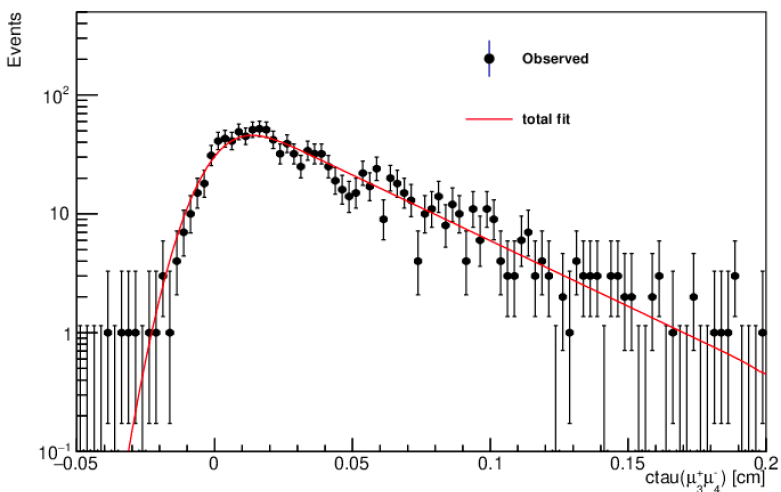
1 BBbar_Mean 1.78616e-03
2 BBbar_Sigma 2.39305e-03
3 BBbar_Tau -2.58456e+01

```

```

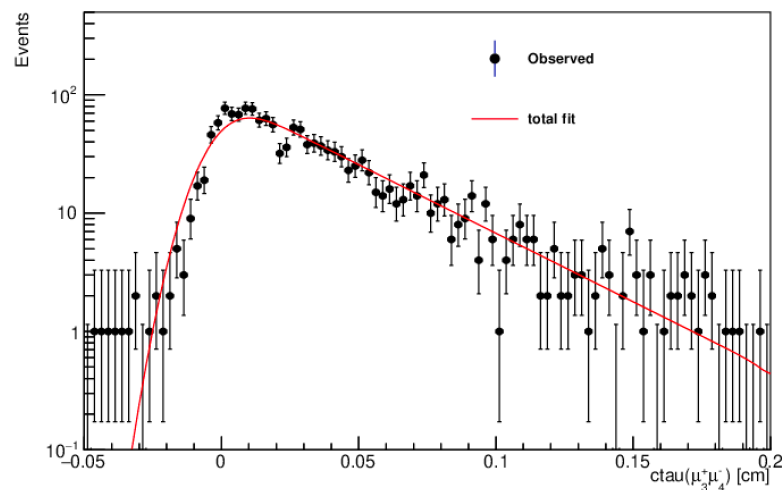
1 DPS_mean1 1.08445e-04 4.5
2 DPS_width1 1.77179e-03 5.2
3 DPS_width2 6.12268e-03 4.7
4 gfrac_DPS_gauss 8.85262e-01

```



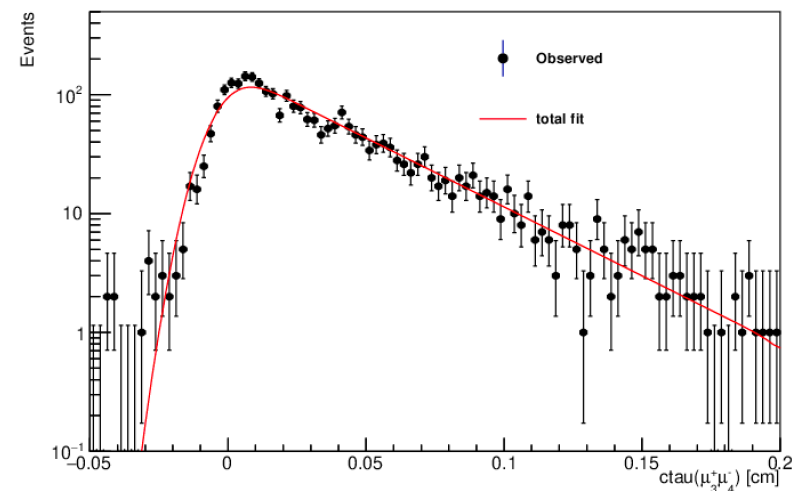
NO.	NAME	VALUE
1	mumu_Mean	1.03785e-03
2	mumu_Sigma	1.04558e-02
3	mumu_Tau	-2.54322e+01

2016



1	mumu_Mean	-1.50032e-03
2	mumu_Sigma	9.74410e-03
3	mumu_Tau	-2.66728e+01

2017

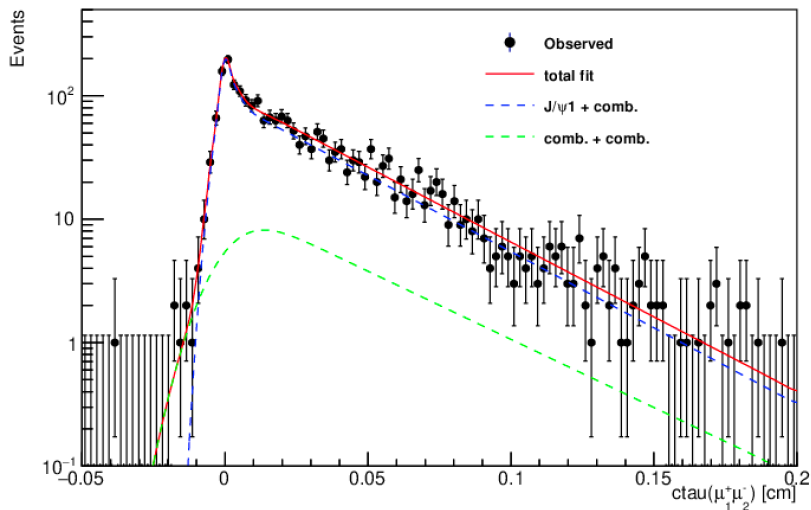
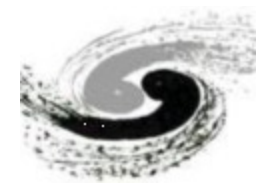


1	mumu_Mean	-2.31019e-03
2	mumu_Sigma	8.56608e-03
3	mumu_Tau	-2.67162e+01

2018



Jpsi_mumu PDF

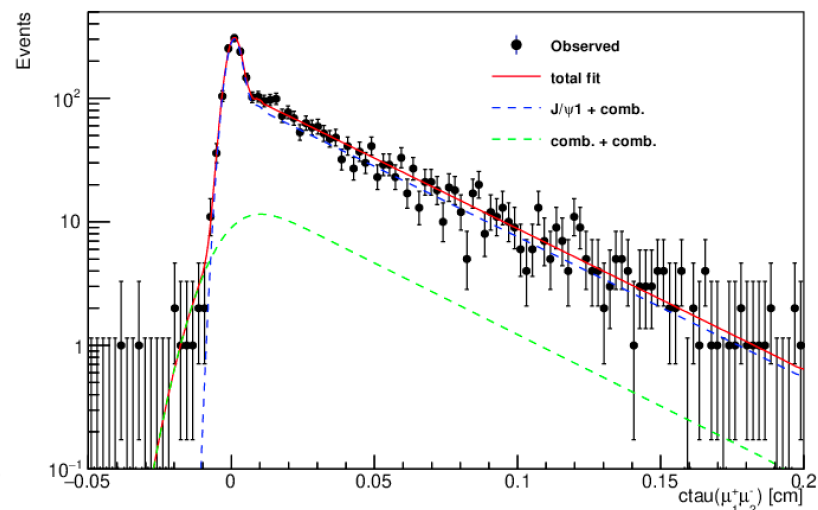


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1 Jpsimumu_NP_Mean 1.05214e-08
2 Jpsimumu_NP_Sigma 2.40523e-03
3 Jpsimumu_NP_Tau -2.84161e+01 9
4 Jpsimumu_P_mean 5.47228e-05 8
5 Jpsimumu_P_width1 1.34076e-03
6 Jpsimumu_P_width2 3.69137e-03
7 gfrac_Jpsimumu_P 1.81691e-01
8 gfrac_gauss 3.67245e-01 1.820

```

2016

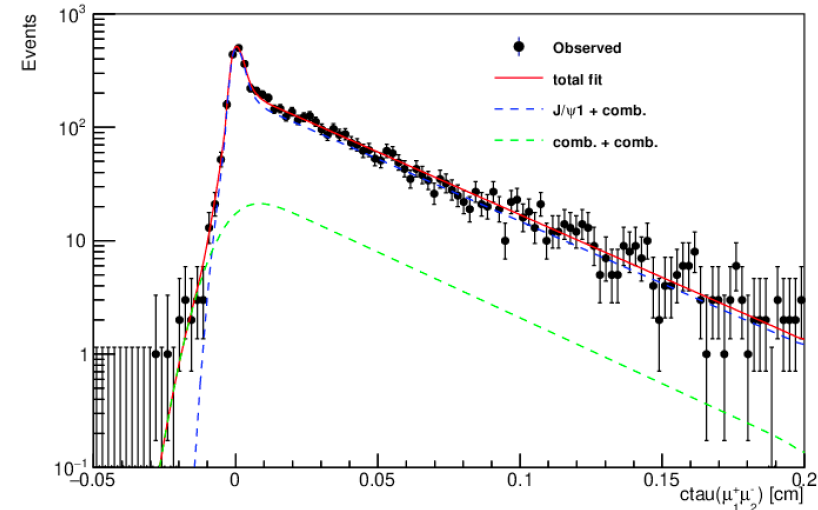


```

1 Jpsimumu_NP_Mean 7.32510e-03
2 Jpsimumu_NP_Sigma 1.69121e-03
3 Jpsimumu_NP_Tau -2.62380e+01
4 Jpsimumu_P_mean 1.05445e-03
5 Jpsimumu_P_width1 2.85196e-03
6 Jpsimumu_P_width2 3.26657e-03
7 gfrac_Jpsimumu_P 3.92371e-01
8 gfrac_gauss 8.96904e-01 7.63

```

2017

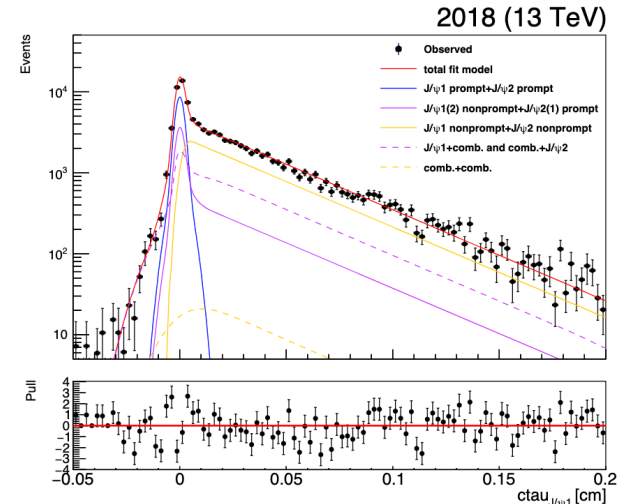
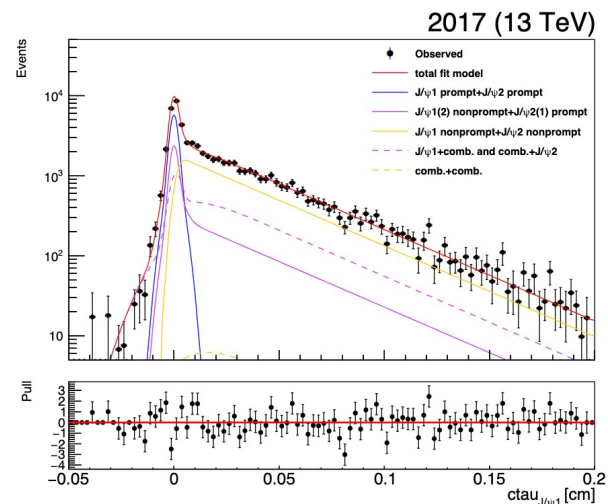
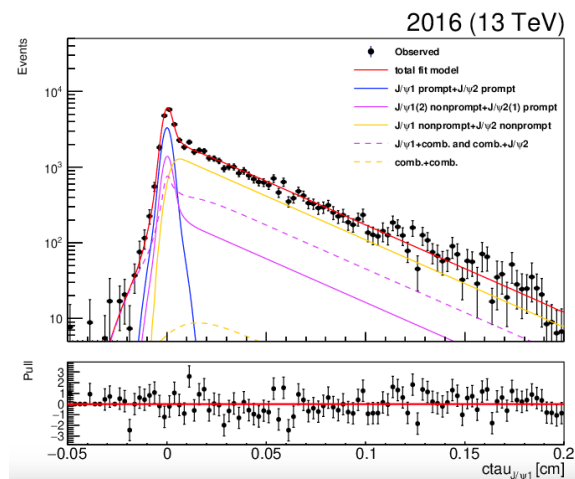
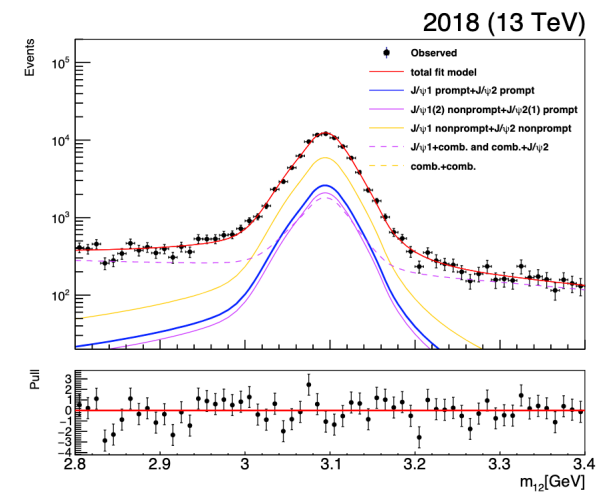
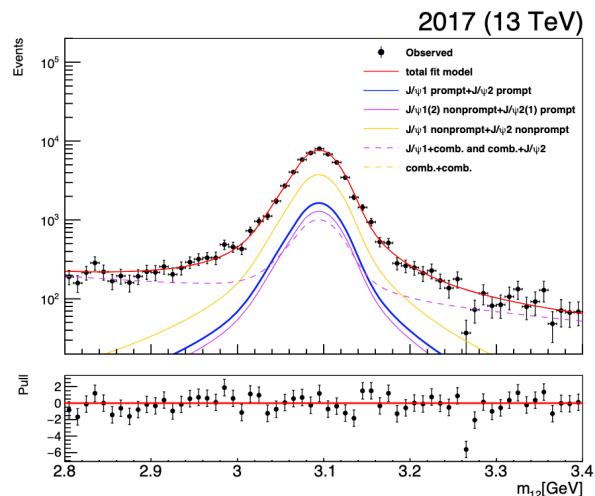
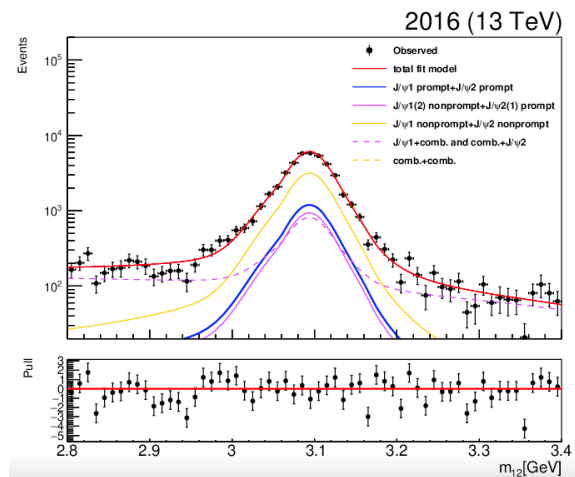


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1 Jpsimumu_NP_Mean -4.77744e-04
2 Jpsimumu_NP_Sigma 7.65279e-04
3 Jpsimumu_NP_Tau -2.52644e+01
4 Jpsimumu_P_mean 3.82044e-04
5 Jpsimumu_P_width1 2.13004e-03
6 Jpsimumu_P_width2 4.07041e-03
7 gfrac_Jpsimumu_P 2.07801e-01
8 gfrac_gauss 5.89254e-01 2.05

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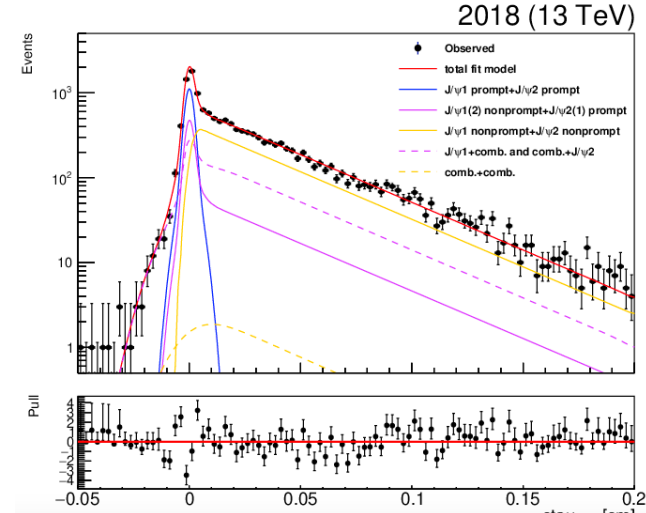
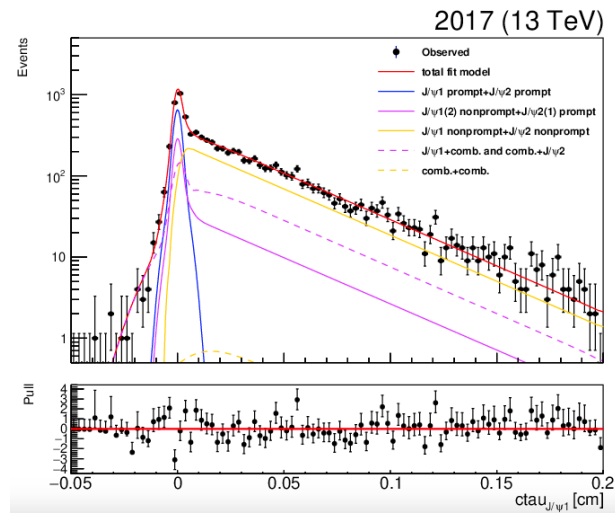
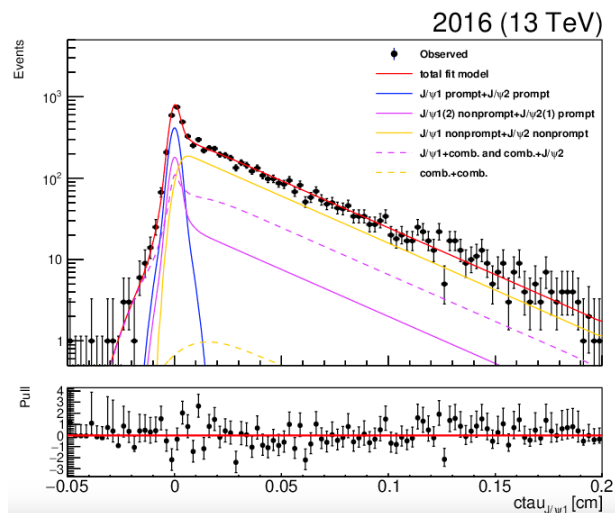
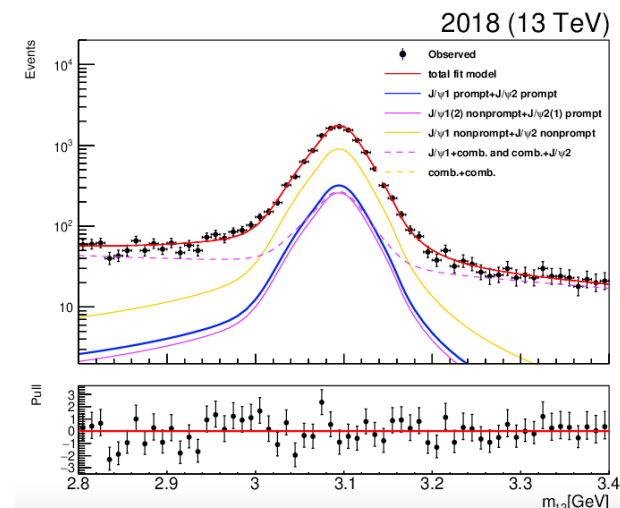
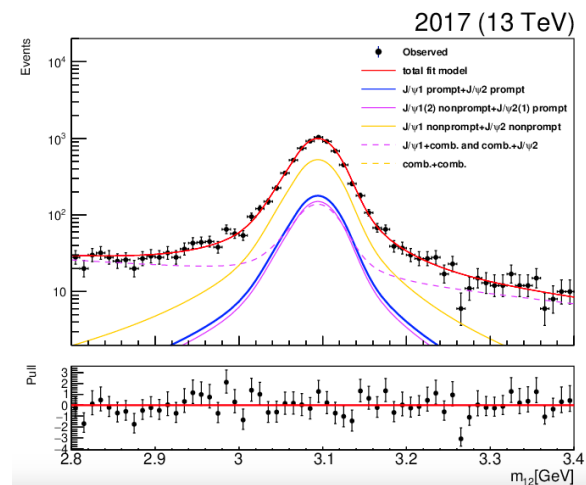
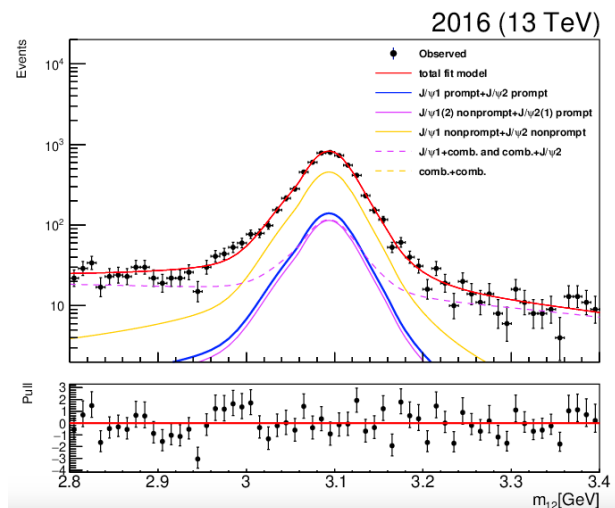
2018



$68.32 \pm 2.60 \text{ pb}$

$91.36 \pm 2.98 \text{ pb}$

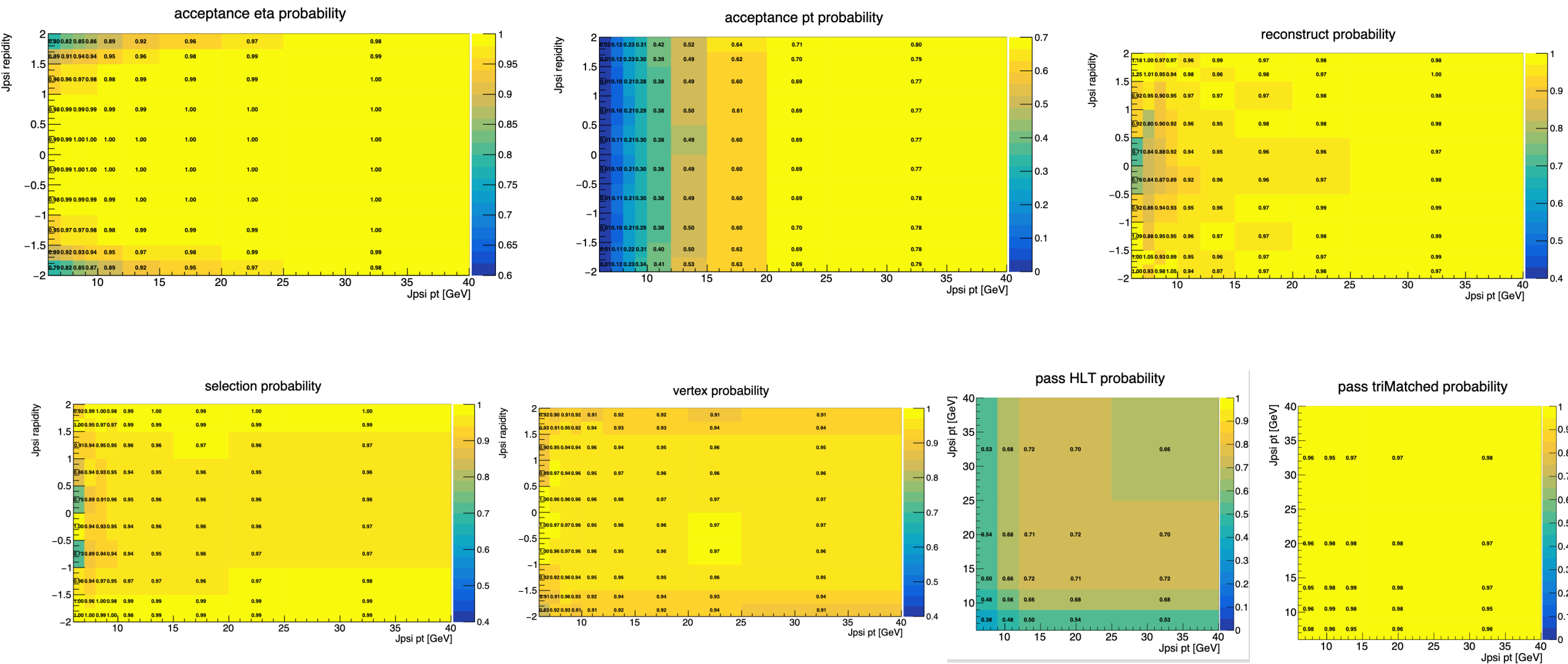
$86.96 \pm 2.18 \text{ pb}$



$8.06 \pm 0.29 \text{ pb}$

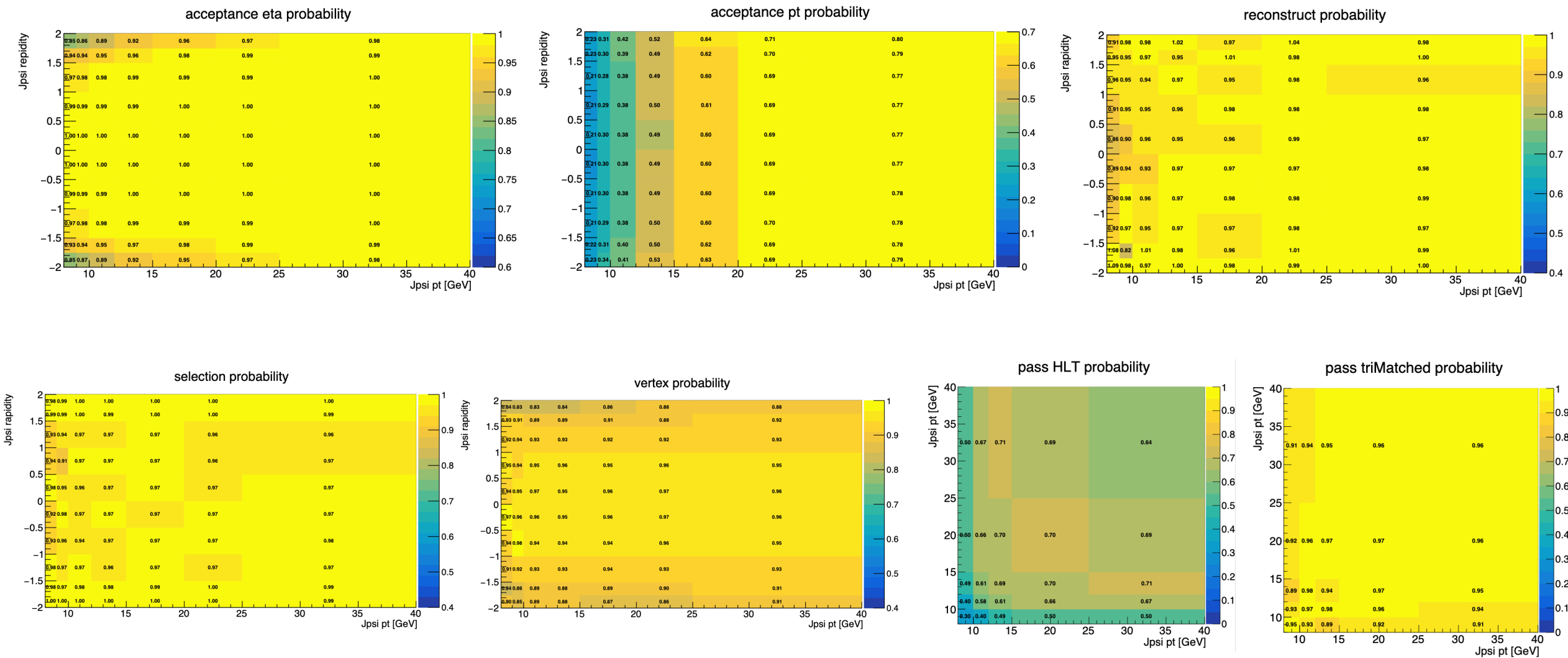
$9.88 \pm 0.31 \text{ pb}$

$10.60 \pm 0.265 \text{ pb}$



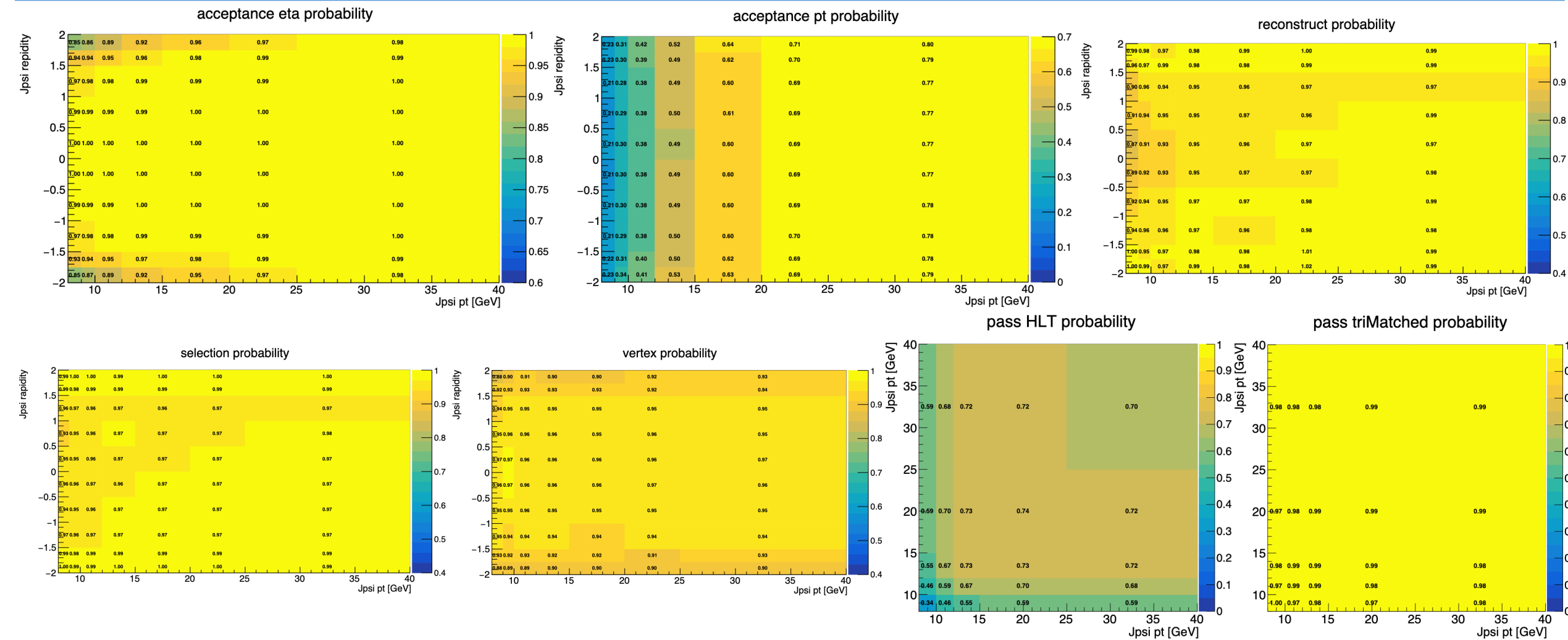


2017





2018



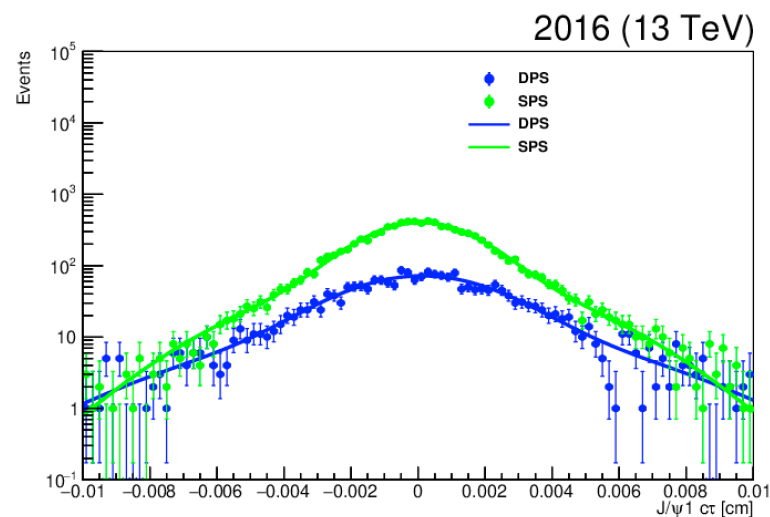
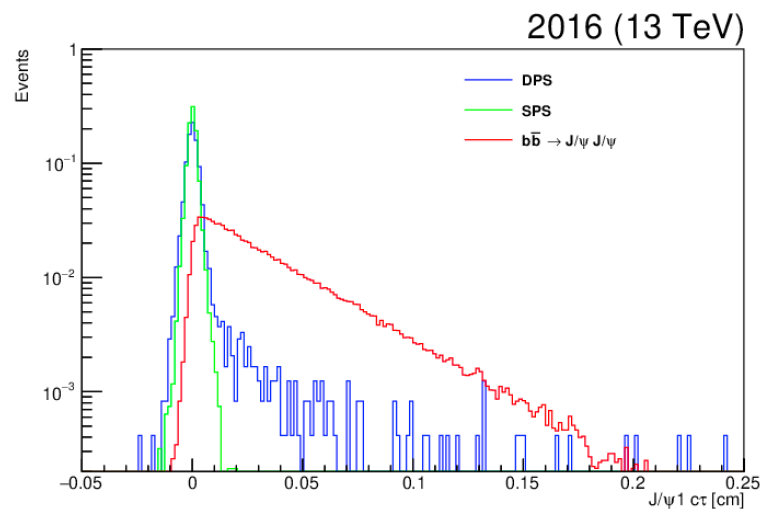
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backup



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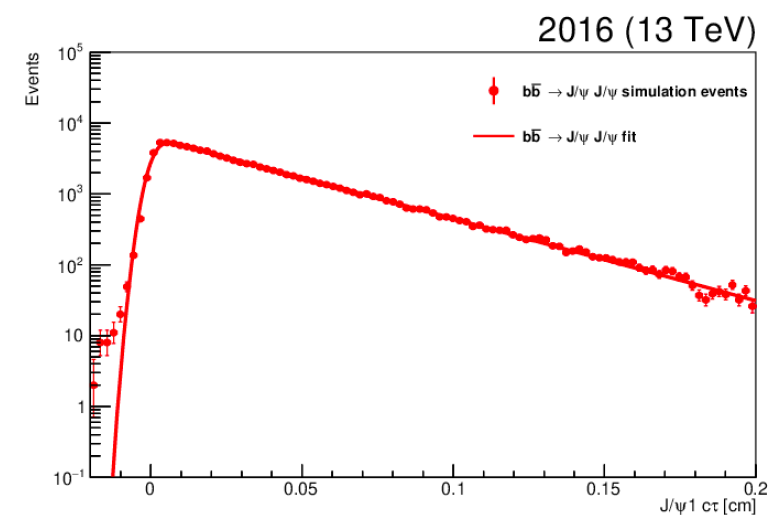
1 SPS_mean1 7.59660e-05 2.1
2 SPS_width1 1.52360e-03 4.3
3 SPS_width2 3.33258e-03 1.6
4 gfrac_SPS_gauss 6.65077e-01

```

```

1 DPS_mean1 1.25132e-04 5.8
2 DPS_width1 2.04343e-03 1.3
3 DPS_width2 4.56270e-03 5.1
4 gfrac_DPS_gauss 6.65315e-01

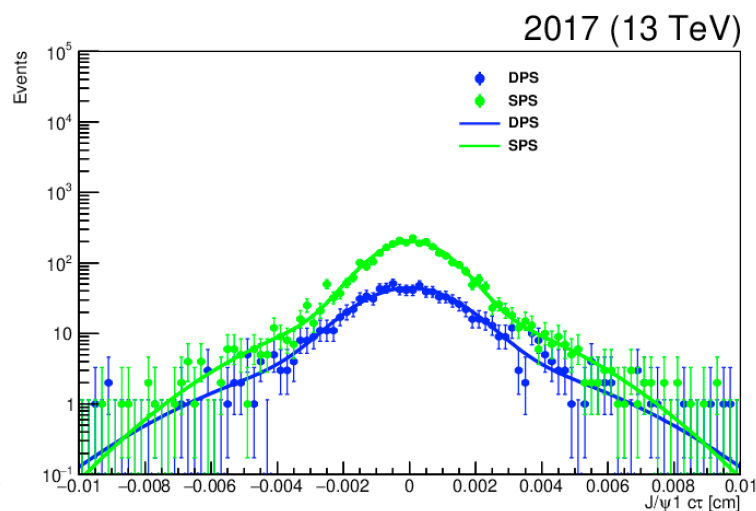
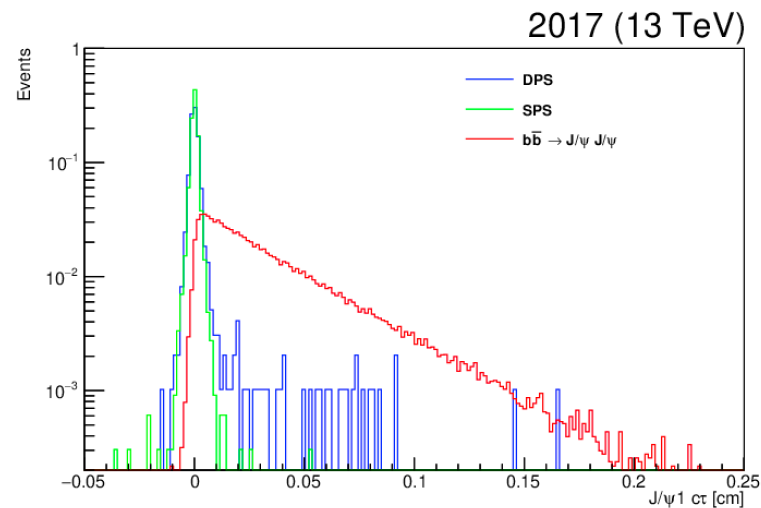
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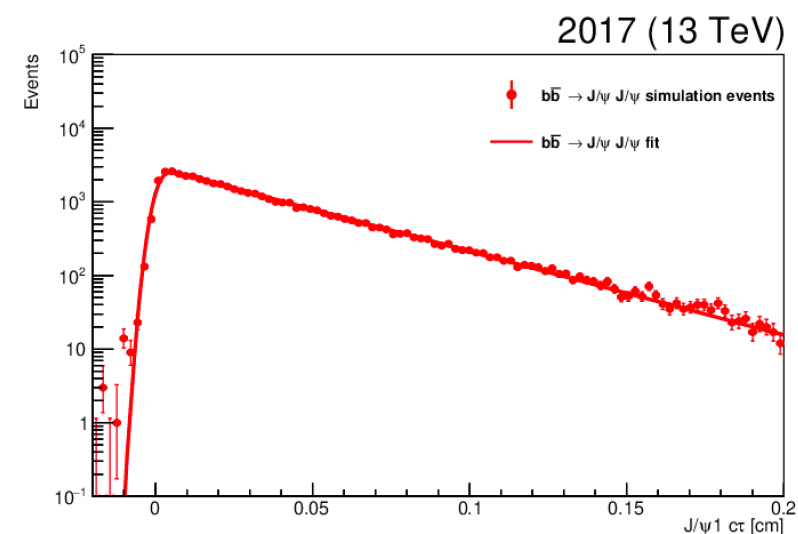
1 BBbar_Mean 1.86374e-03
2 BBbar_Sigma 3.10618e-03
3 BBbar_Tau -2.66226e+01

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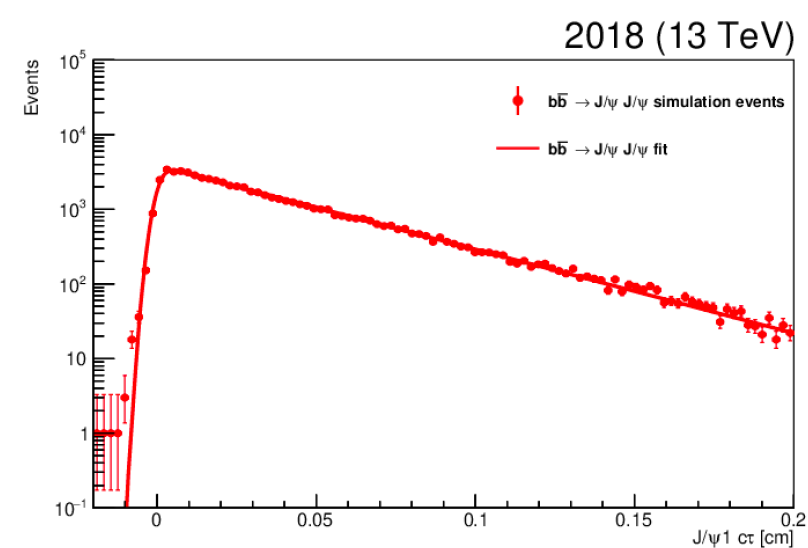
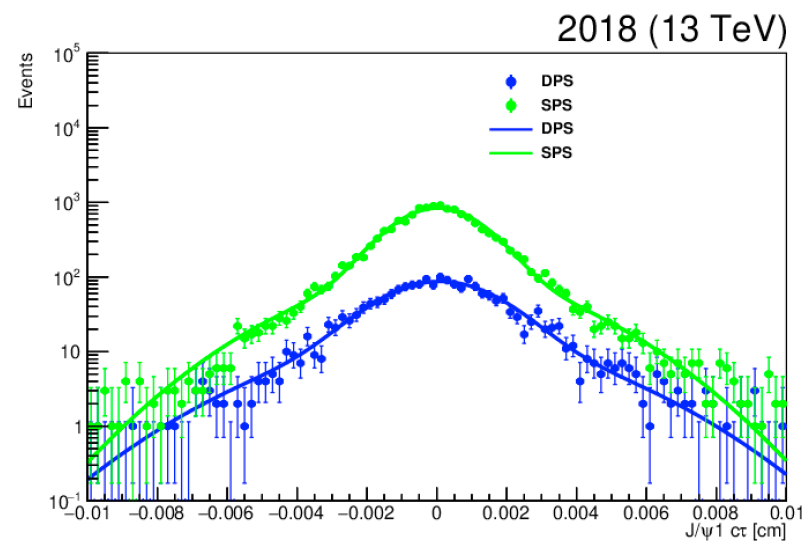
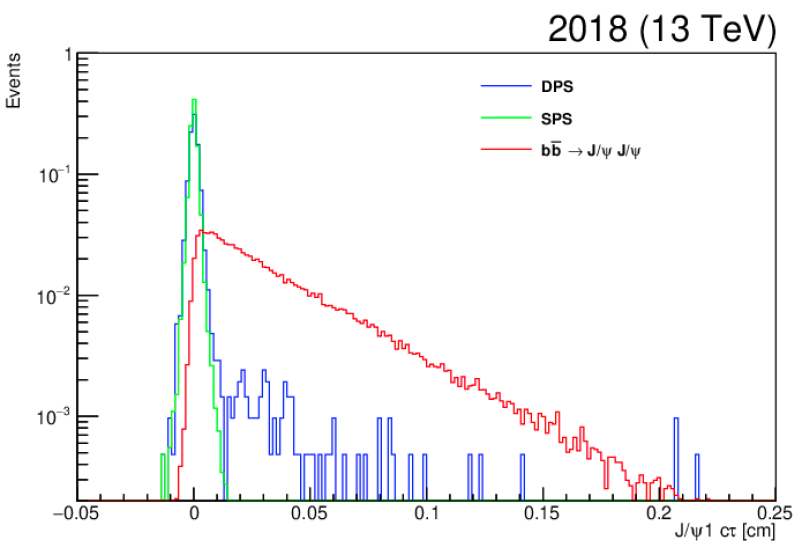



1	SPS_mean1	4.05975e-05	2.4
2	SPS_width1	1.09872e-03	3.5
3	SPS_width2	3.00802e-03	1.3
4	gfrac_SPS_gauss	7.55339e-01	

1	DPS_mean1	1.31329e-11	5.
2	DPS_width1	1.40490e-03	1.
3	DPS_width2	3.64879e-03	3.
4	gfrac_DPS_gauss	7.34776e-01	



1	BBbar_Mean	1.85106e-03
2	BBbar_Sigma	2.50225e-03
3	BBbar_Tau	-2.62338e+01



1	SPS_mean1	2.48877e-05	1.2
2	SPS_width1	1.16973e-03	2.0
3	SPS_width2	2.96809e-03	7.0
4	gfrac_SPS_gauss	7.48800e-01	

1	DPS_mean1	9.62697e-05	4.4
2	DPS_width1	1.51677e-03	8.2
3	DPS_width2	3.46607e-03	2.6
4	gfrac_DPS_gauss	7.07174e-01	

1	BBbar_Mean	1.78616e-03
2	BBbar_Sigma	2.39305e-03
3	BBbar_Tau	-2.58456e+01