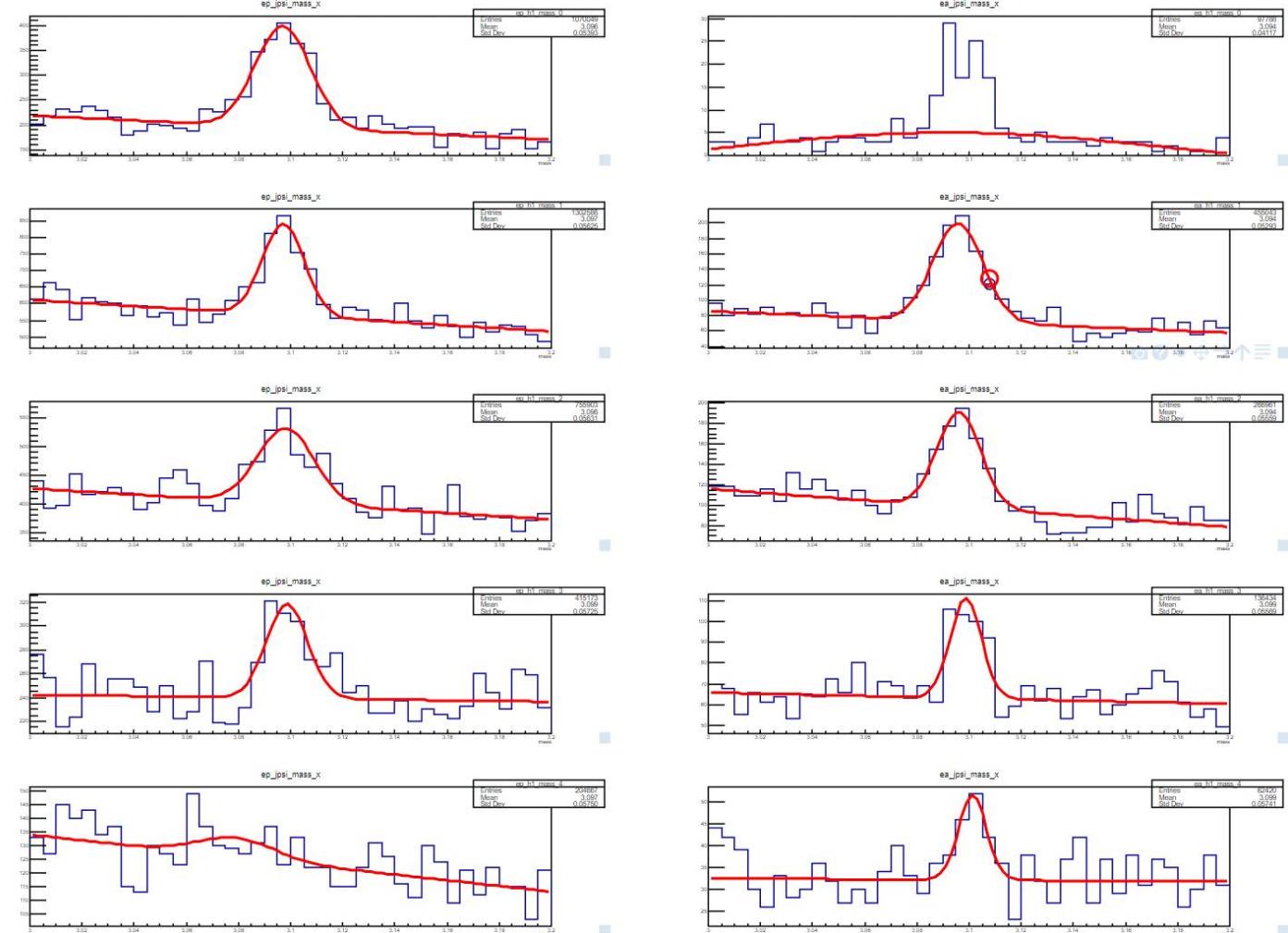
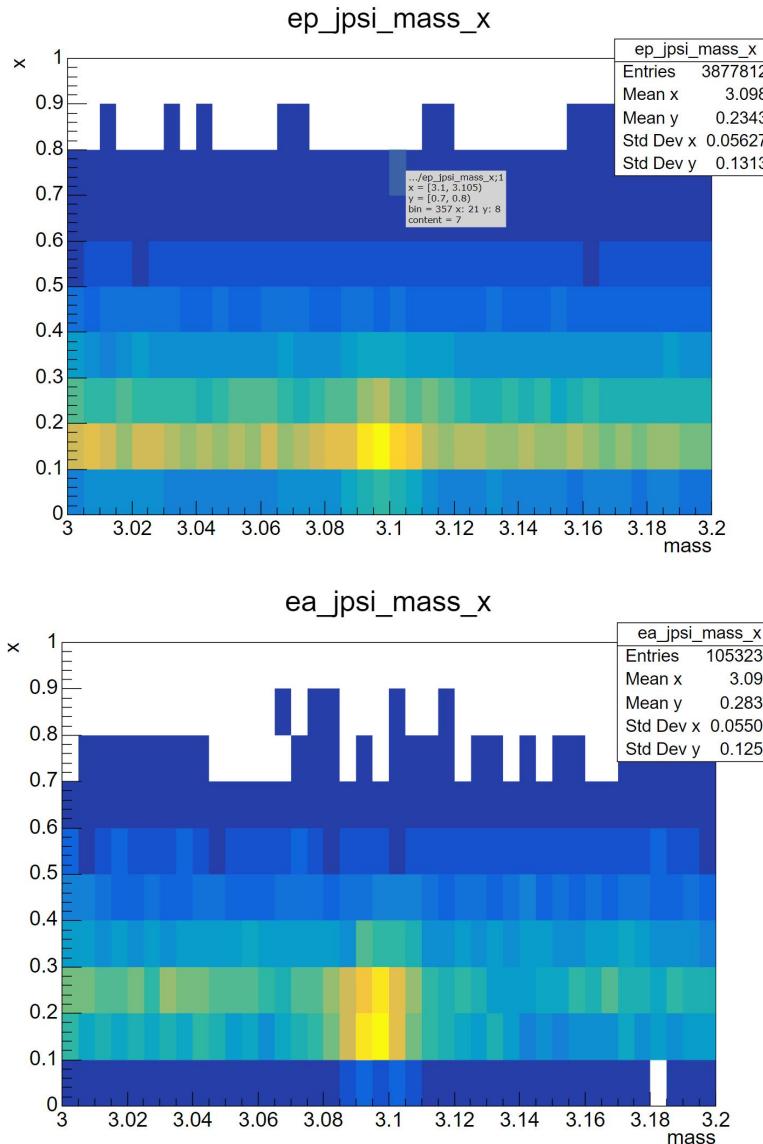


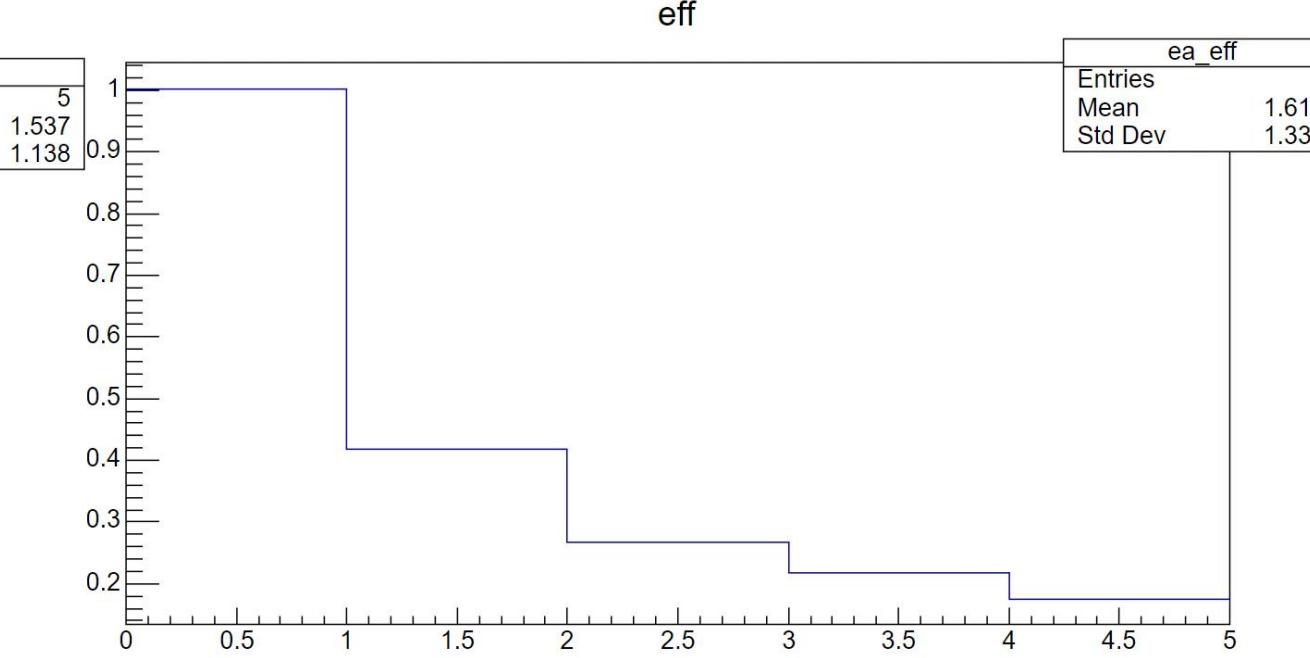
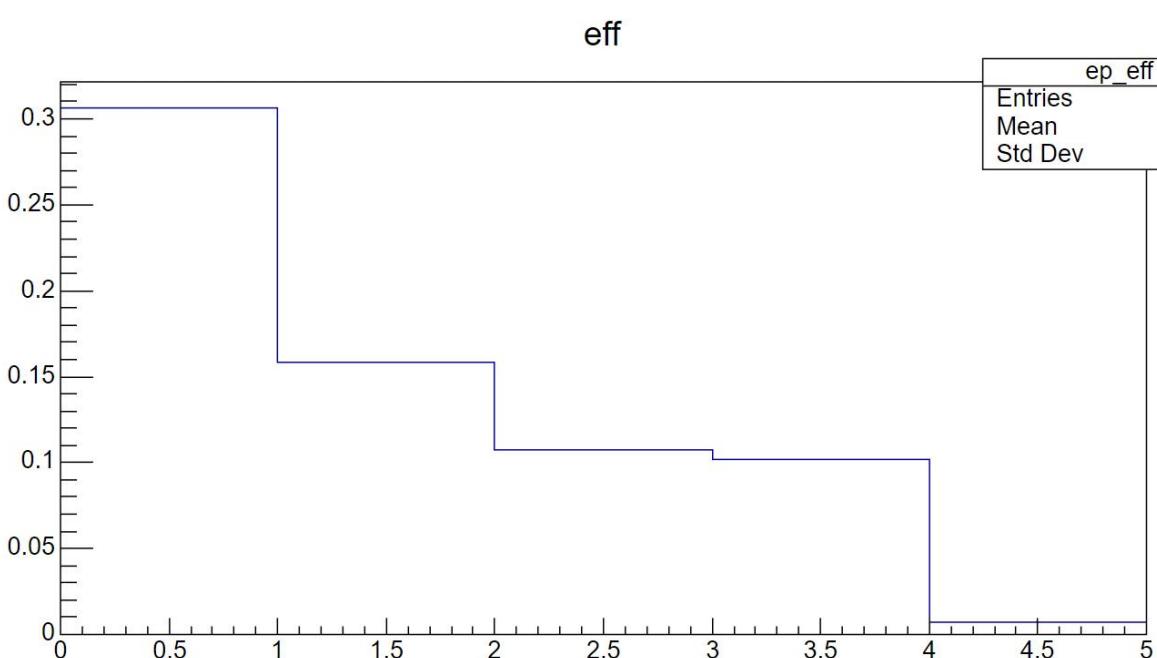
EicC jpsi pT broadening

$Q^2 > 10$

jpsi reconstruction in different x range

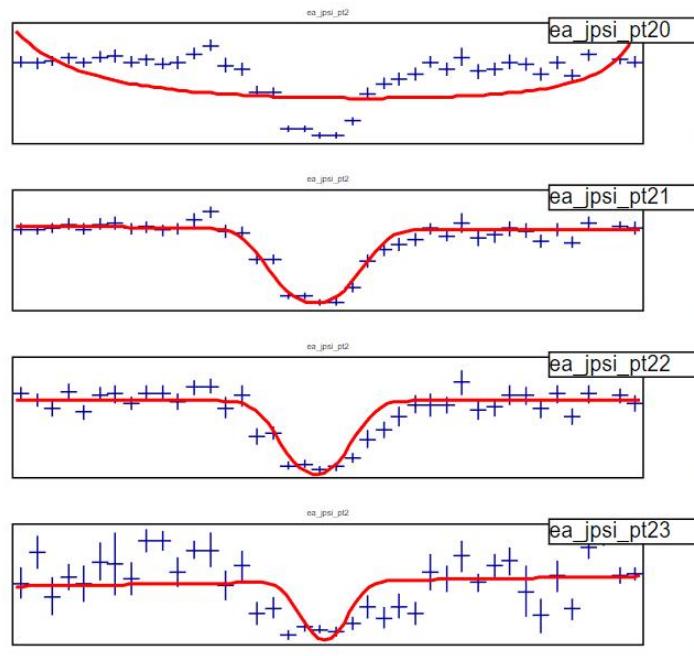
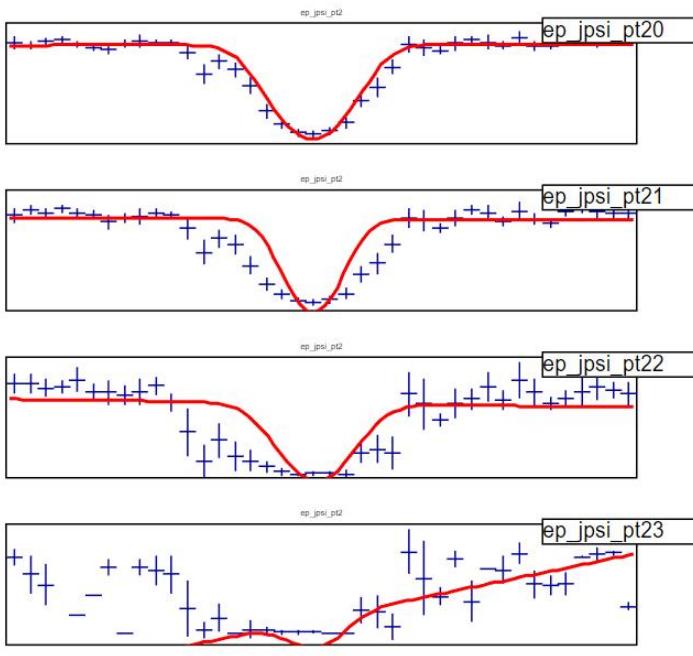


$\text{eff} = 3\sigma$ 内的 $\frac{\text{signal}}{\text{total}}$



```
background parameters: -0.483821 -0.784529
background parameters: 509.435 -141.144
background parameters: 675.982 -186.722
background parameters: 148.043 -27.4465
background parameters: 43.9412 -3.80016
```

```
n_signal += ep_h1_mass->GetBinContent(j)-f1_bkg.Eval(ep_h1_mass->GetBinCenter(j));
n_total += ep_h1_mass->GetBinContent(j);
```



ea fit parameters:	ep fit parameters:
20.4982	0.959082
-60.8984	12.5273
6.98961	-10.8662
ea fit parameters:	ep fit parameters:
-2.88003	-2.53936
23.8314	24.3464
-2.10089	-32.6919
ea fit parameters:	ep fit parameters:
-0.218075	-8.47352
16.6996	41.3092
-11.3414	-48.5245
ea fit parameters:	ep fit parameters:
11.0991	160.091
-20.6446	-492.457
-15.7964	-25.1076

```

double ep_func_pt2_mass(double *x, double *par) {
    double mass = x[0];
    double count_signal = f1_signal->Eval(mass);
    double count_total = f1_total->Eval(mass);
    double s2t = count_signal / count_total;

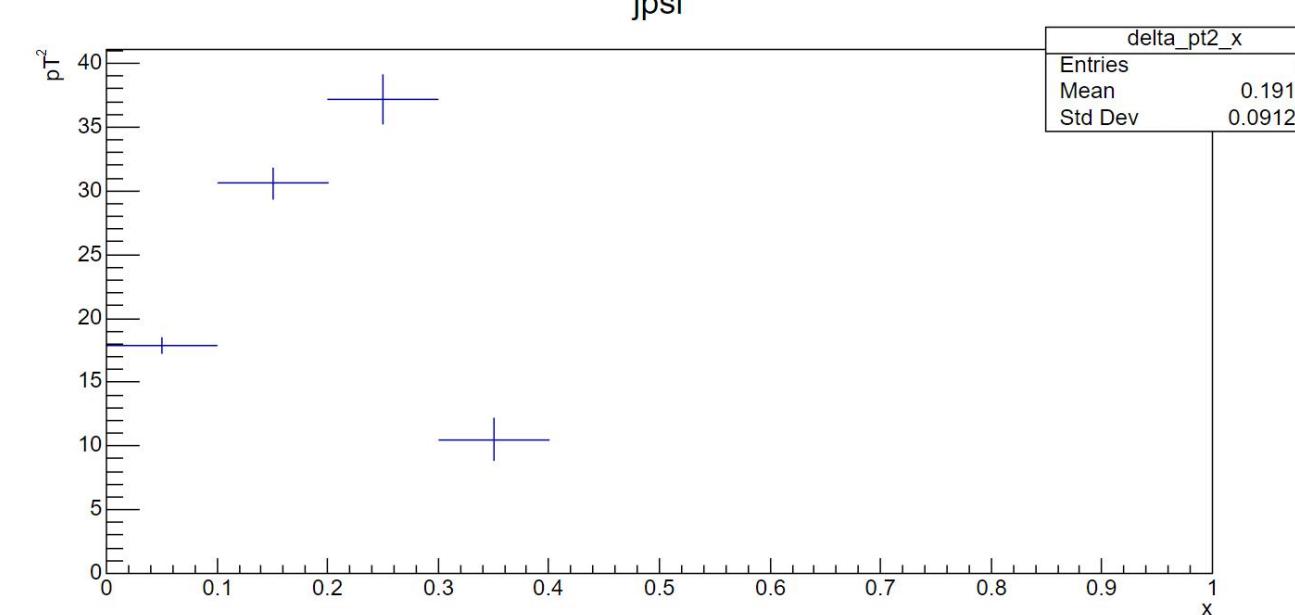
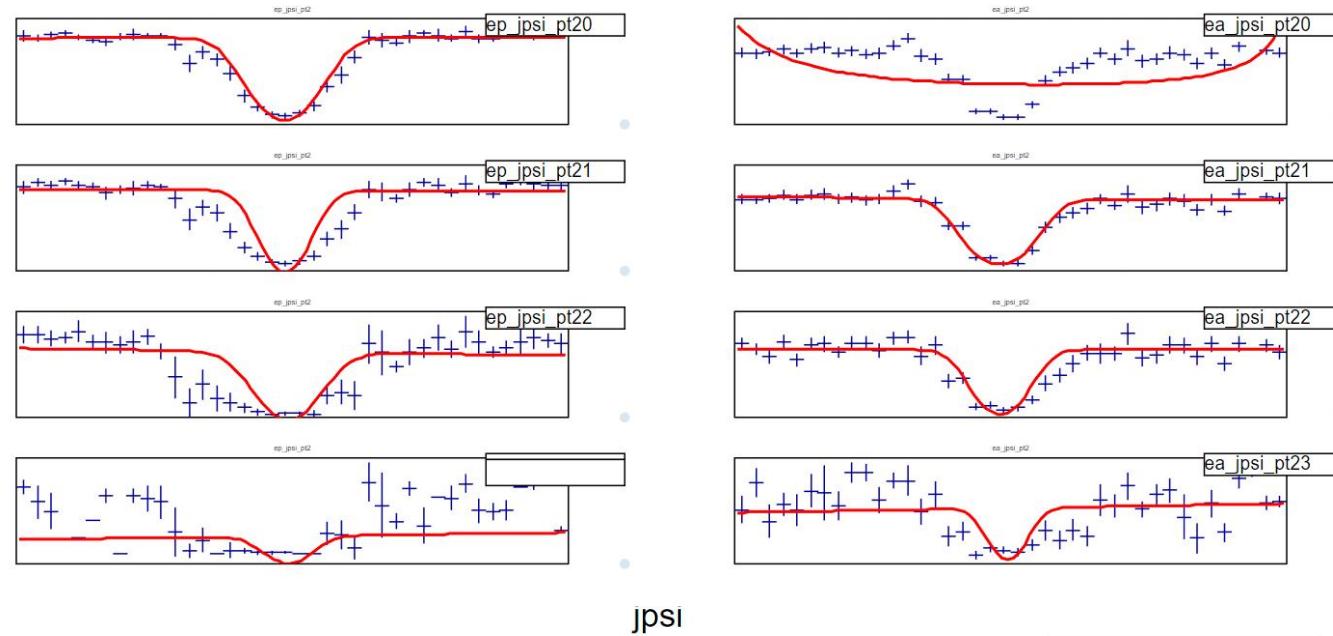
    double pt2_background = par[0] * mass + par[1];
    double pt2_signal = par[2];
    double pt2_all = s2t * pt2_signal + (1 - s2t) * pt2_background;

    return pt2_all;
}

```

拟合出来的pt2_signal<0

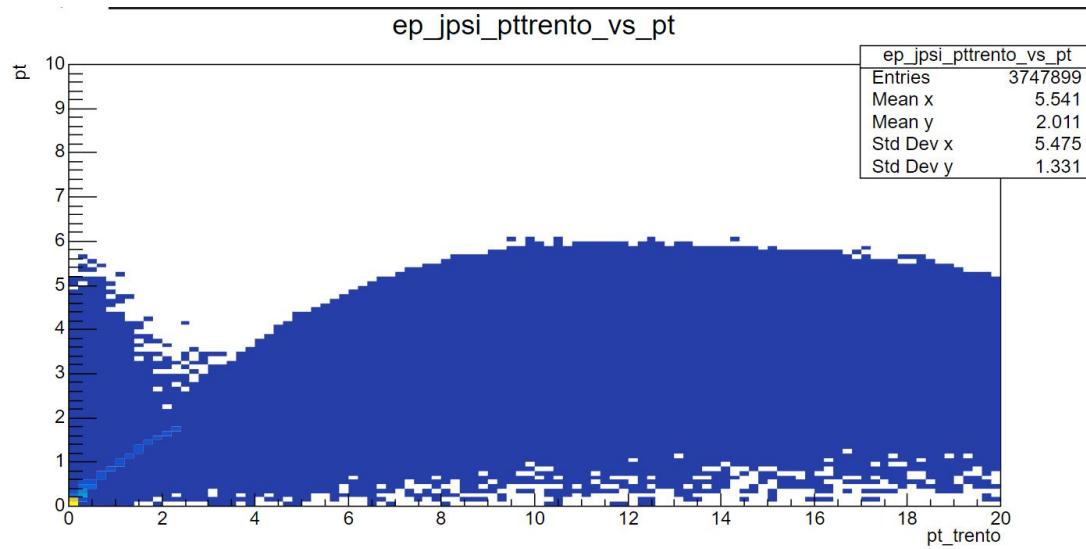
修改初始参数和范围



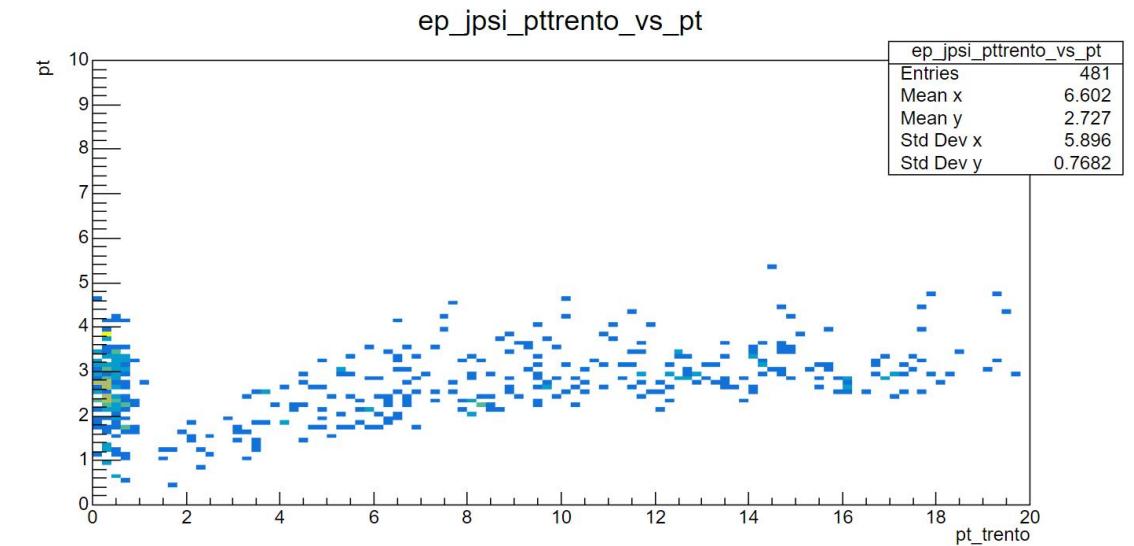
J/ψ 的 δp_T^2 偏大

ea fit parameters:	ep fit parameters:
20.4982	0.958864
-60.8984	12.5279
6.98961	-10.8662
ea fit parameters:	ep fit parameters:
-2.88003	-2.53937
23.8314	24.3465
-2.10089	-32.692
ea fit parameters:	ep fit parameters:
-0.218075	-8.47154
16.6996	41.3032
-11.3414	-48.5255
ea fit parameters:	ep fit parameters:
11.0991	10
-20.6446	-25.9385
-15.7964	-26.2838

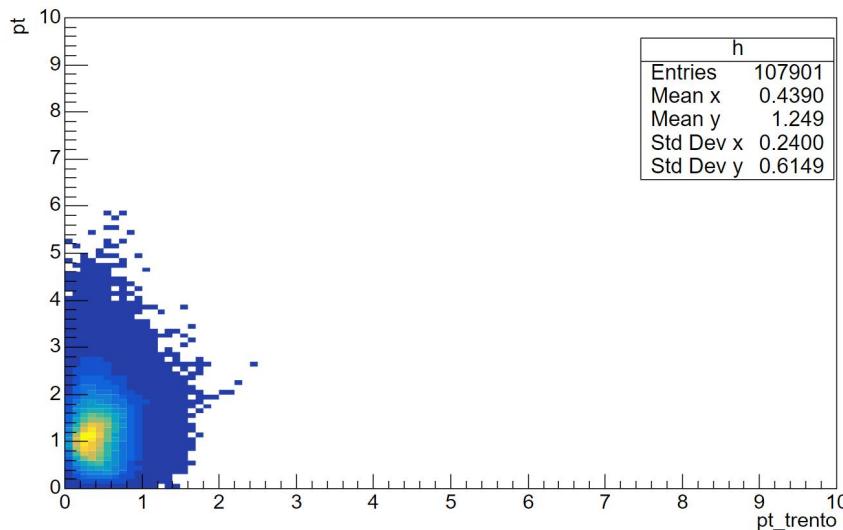
background: mass <= 3.096 or mass >= 3.097



signal: $3.096 < mass < 3.097$

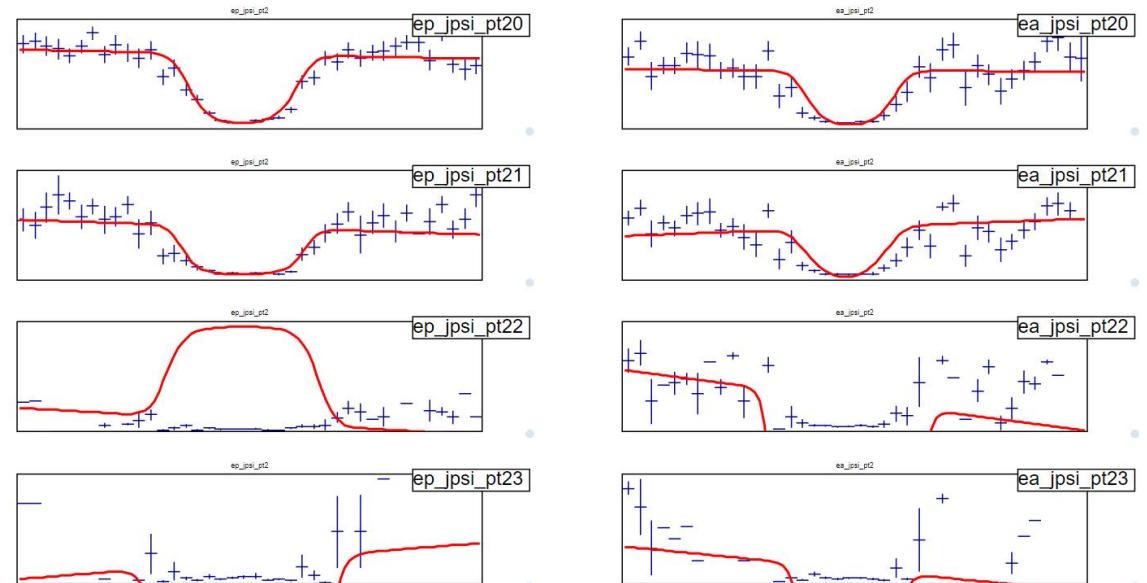
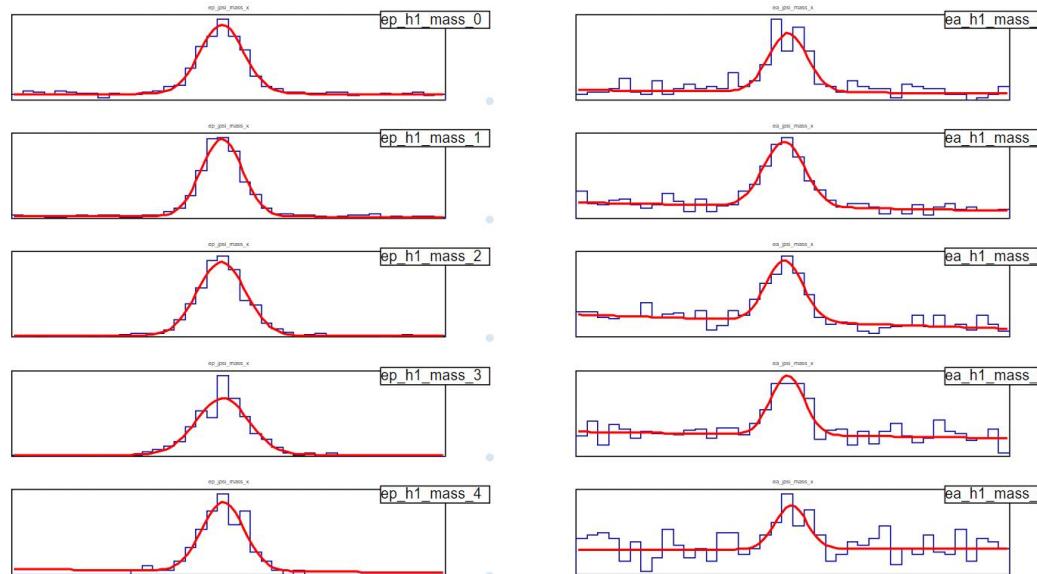


J/ψ



check蒙卡产生的jpsi填的pt vs pt in trento

pt_trento <2GeV



ea fit parameters:

- 0.279237
- 2.57782
- 0.032071
- ea fit parameters:**
- 2.97295
- 7.38441
- 0.429643
- ea fit parameters:**
- 10.6254
- 34.0148
- 4300.12
- ea fit parameters:**
- 6.52914
- 20.6693
- 74.8876

ep fit parameters:

- 1.12261
- 5.46679
- 0.135923
- ep fit parameters:**
- 2.37992
- 9.09406
- 0.191573
- ep fit parameters:**
- 13.0555
- 41.41
- 10
- ep fit parameters:**
- 6.35649
- 18.9054
- 10