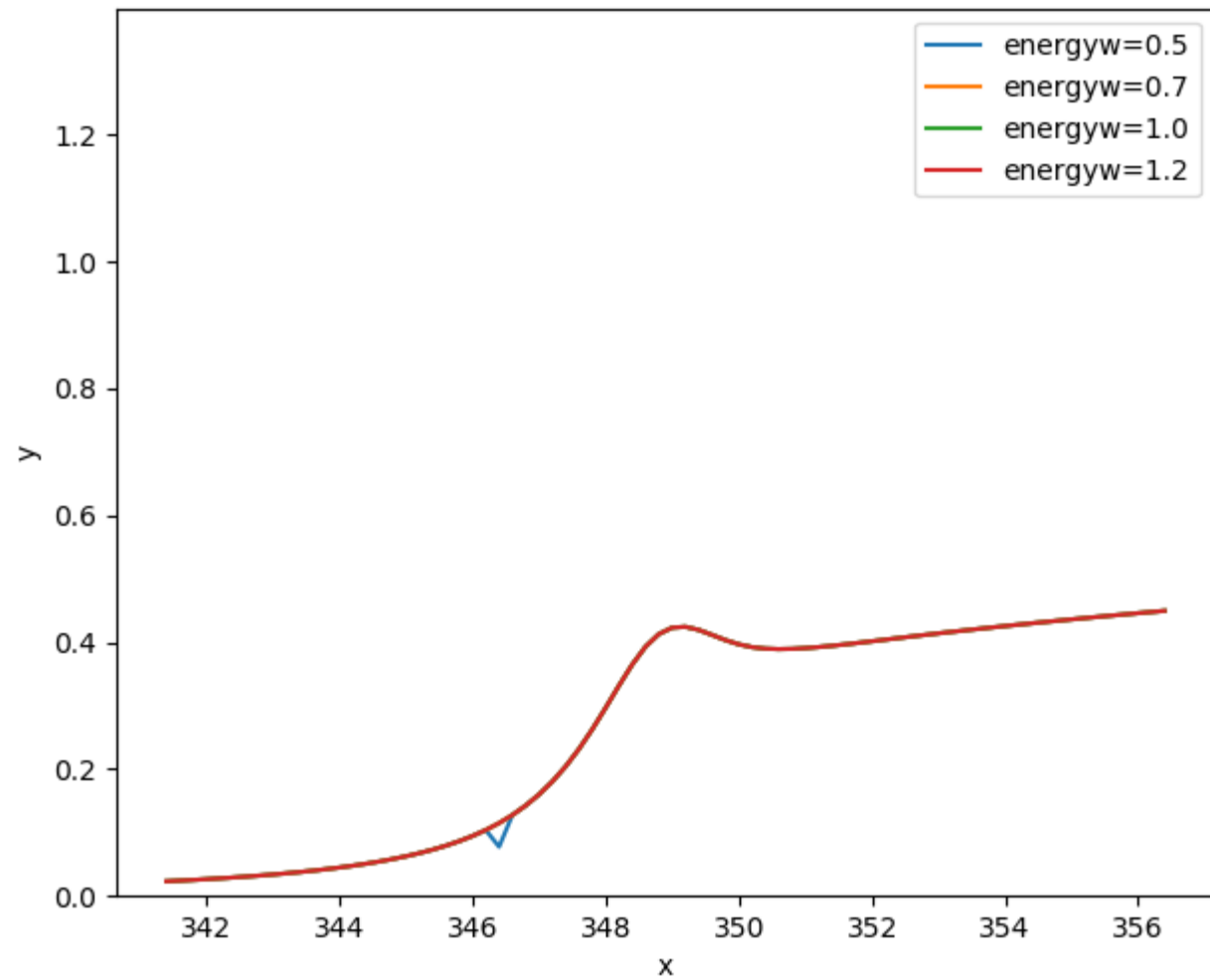


update

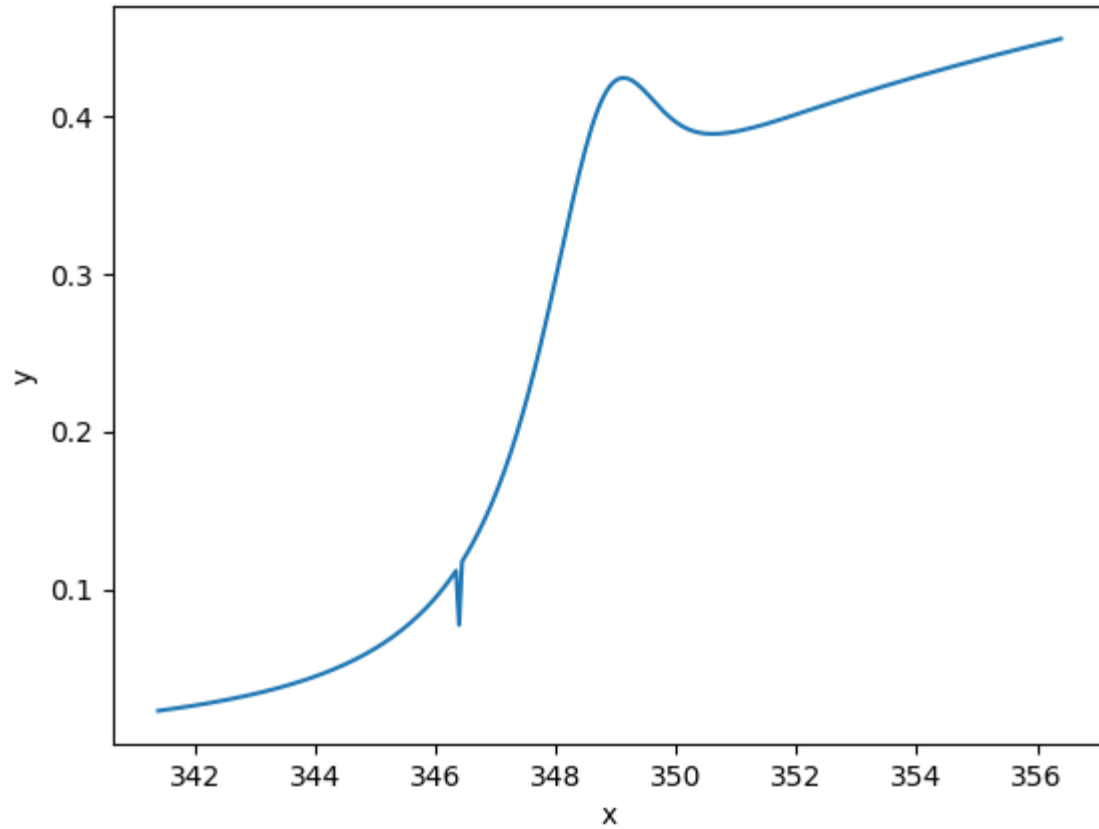
2021.1.15

- 总的来说这次update只有问题没有进展

1.对LS+ISR改变能量宽度



```
345.196 0.0673771
345.396 0.0728941
345.596 0.0791527
345.796 0.0862906
345.996 0.0944755
346.196 0.103912
346.396 0.0775074
346.596 0.127586
346.796 0.142475
```



```
346.196 0.103912
346.246 0.106495
346.296 0.109176
346.346 0.111959
346.396 0.0775074
346.446 0.117852
346.496 0.120972
346.546 0.124215
346.596 0.127586
346.646 0.131092
346.696 0.134737
346.746 0.13853
346.796 0.142475
346.846 0.14658
346.896 0.150851
```

- 在energyw=0.5时，在346.396必然会有这个问题
- 错误不在循环中，是在卷积里，即使只计算346.396也是这个结果

```

NIntegrate[
  ModifiedLuminosityFunction[t, beta]*
    (1 / energyw / 2 / Sqrt[ 3.1415926 ] * Exp[ -(sqrts-ss)*(sqrts-ss) / 2 / energyw / energyw ] ) *
  TTbarXSection[
    Sqrt[1-t^(1/beta)] * sqrts, {mu, muWidth}, {mtPS, width}, order,
    ISRConst -> True
  ],
  {ss, 330, 370},
  {t, 0, tmax}

```

$$\frac{1}{2 * \text{energyw} * \sqrt{\pi}} e^{-\frac{(\text{sqrts}-\text{ss})^2}{2\text{energyw}^2}}$$

* ModifiedLuminosityFunction[t, beta]

* TTbarXSection[$\sqrt{1 - t^{\frac{1}{\text{beta}}}}$ * sqrts,

{mu, muWidth}, {mtPS, width}, order, ISRConst → True

2. Fisher Information

- 由于加了LS的问题还没解决所以暂且没画LS
- 但是要把ISR和没有ISR画在一起的时候出了一些bug, 正在修复这些bug