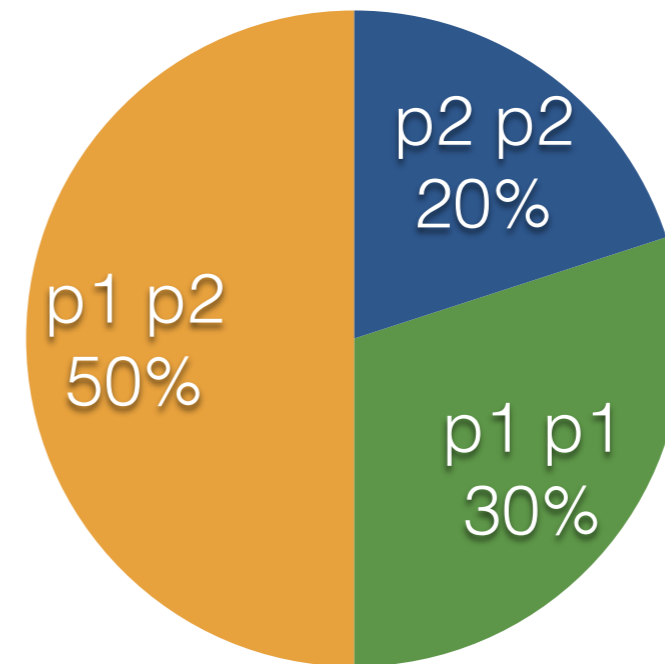
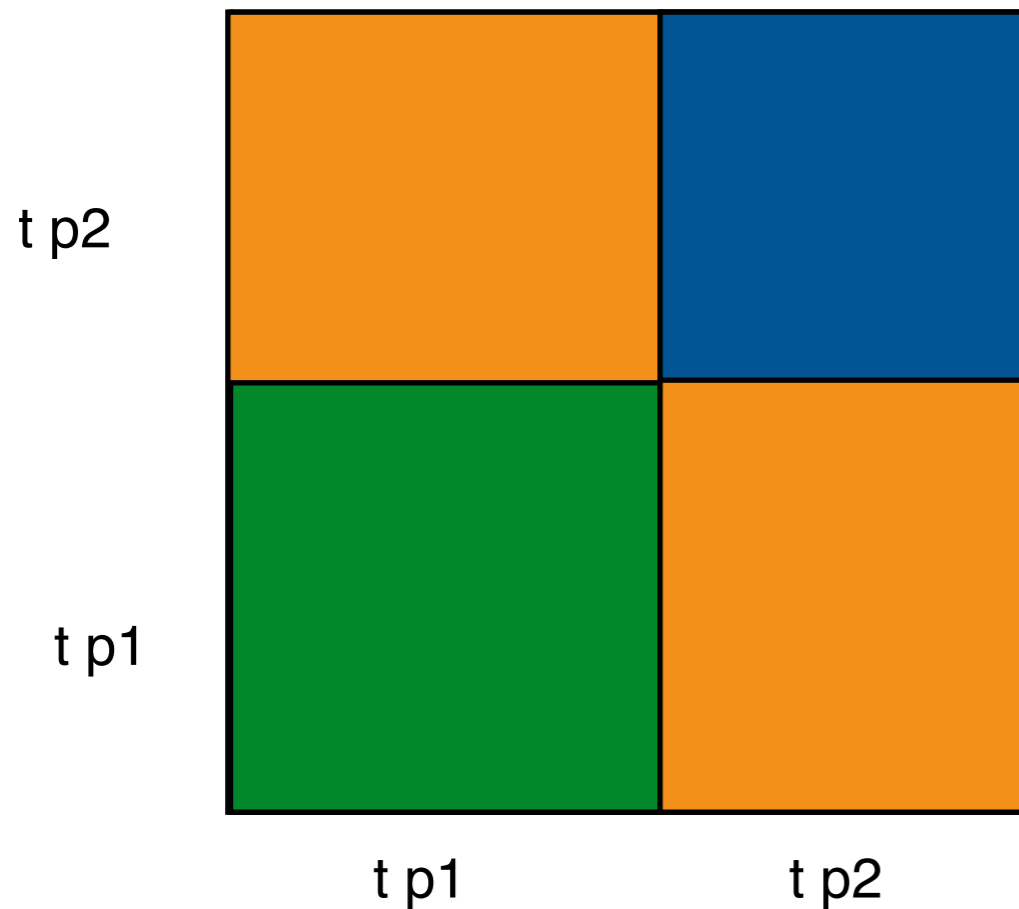


Solution

```

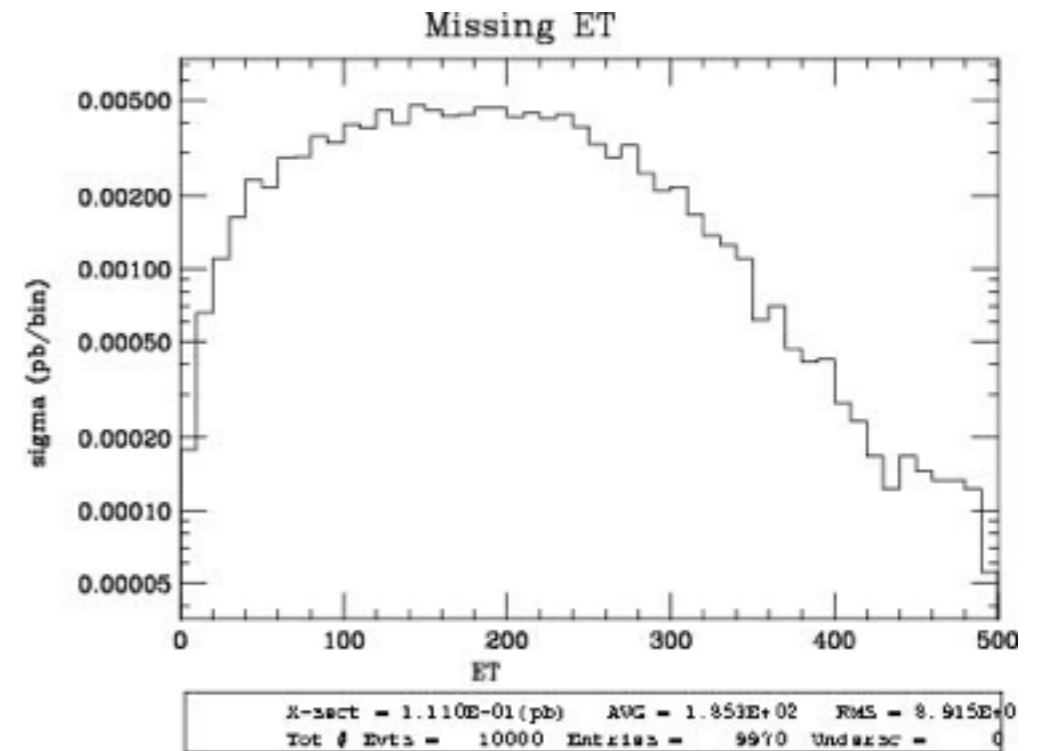
DECAY  9000007  7.063710e-02
#  BR          NDA  ID1  ID2  ...
      5.439901e-01  2   9000005  6  #  0.0384258854562
      4.560099e-01  2   9000006  6  #  0.0322112126178
  
```



$p p > t t^{\sim} p_1 p_1$,

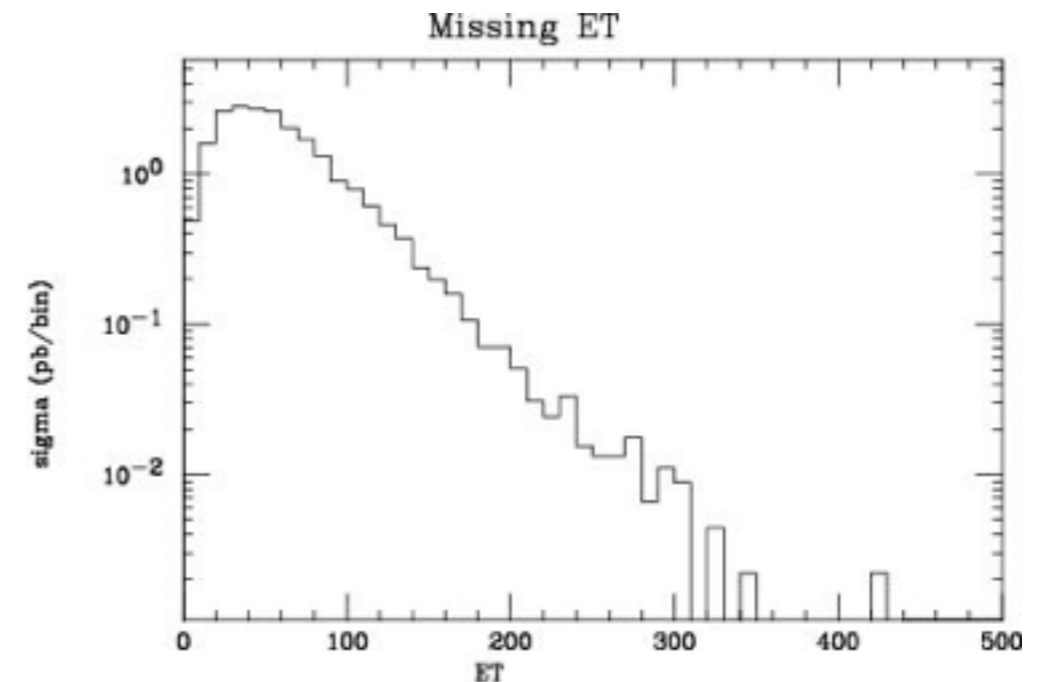
<p>pp 6500 x 6500 GeV</p>	<p>tag_1</p>	<p>0.1111 ± 0.00048</p>
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Note: you need to add p1 to the list of unobserved particles for the plot



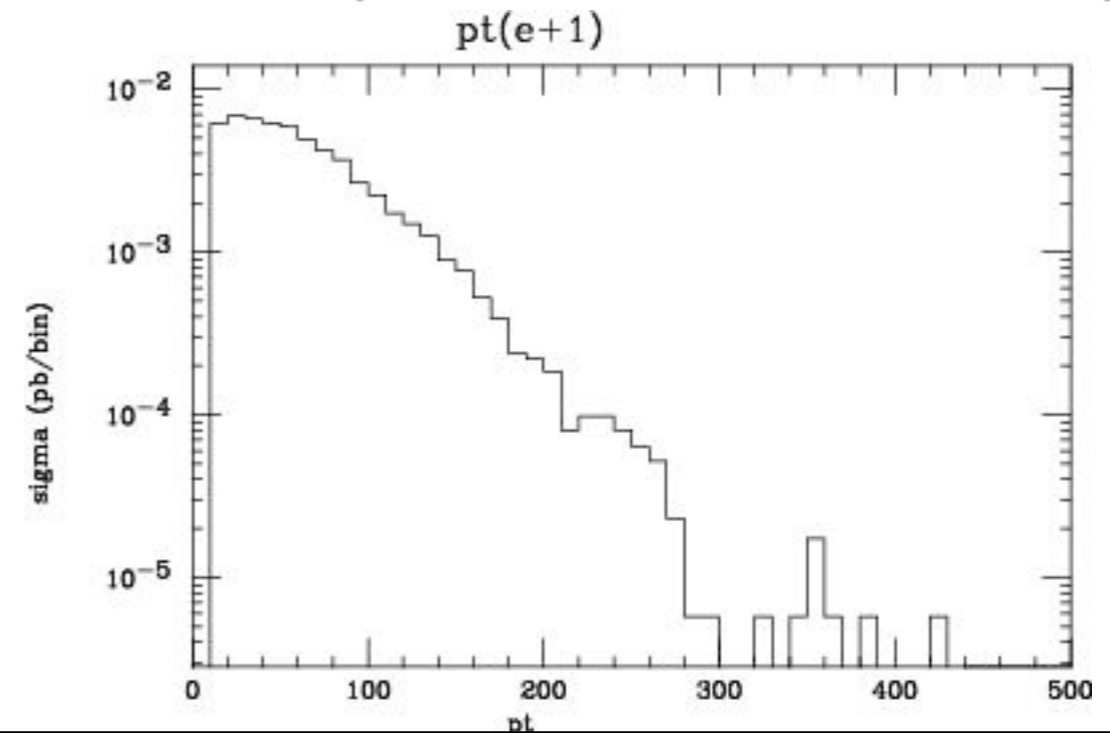
$p p > t t^{\sim}, (t > w^+ b, w^+ > j j), (t^{\sim} > w^- b^{\sim}, w^- > e^- \nu e^{\sim})$

Collider	Banner	Cross section (pb)
<p>pp 6500 x 6500 GeV</p>	<p>tag_1</p>	<p>22.11 ± 0.073</p>



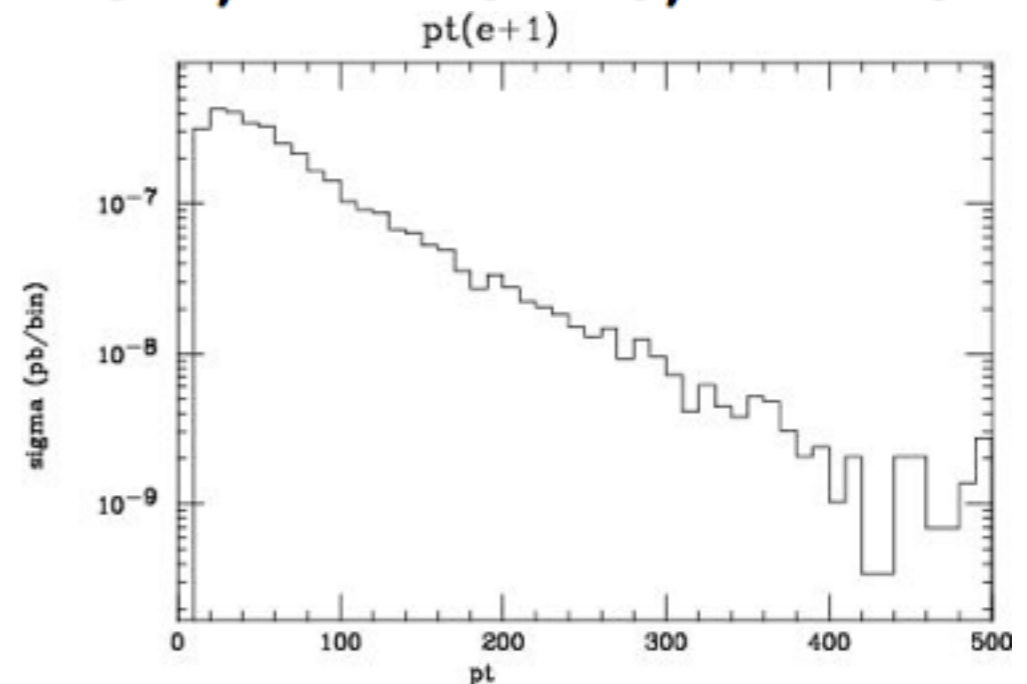
$p p > t t^{\sim} p1 p2, t > b j j, t^{\sim} > b^{\sim} e^{-} \nu e^{\sim}, (p2 > e\nu e+, e\nu > e^{-} p1)$

pp 6500 x 6500 GeV	tag_1	0.0576 ± 0.00021
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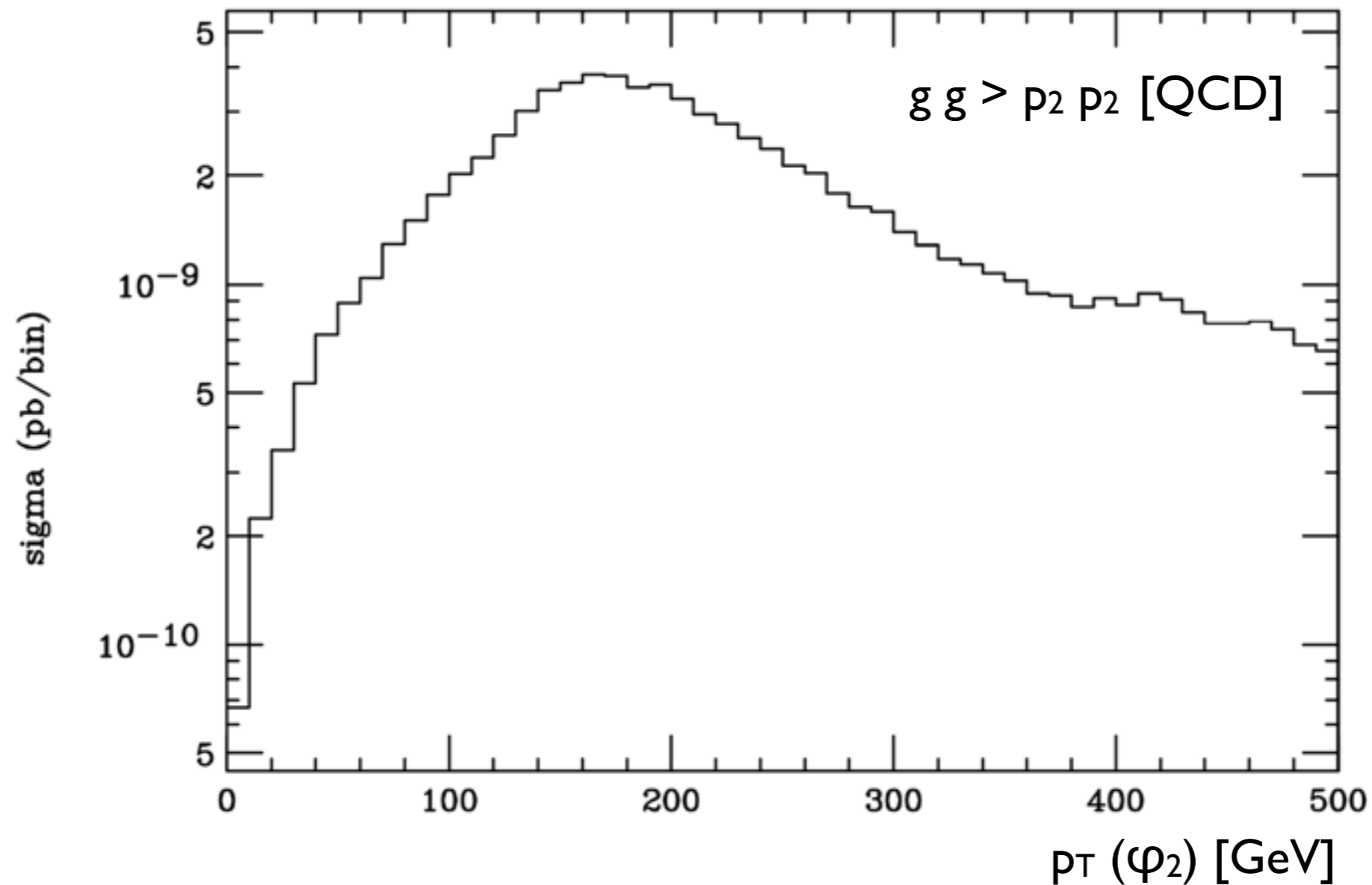
$p p > t t^{\sim} w+ w-, t > b j j, t^{\sim} > b^{\sim} e^{-} \nu e^{\sim}, w+ > e+ \nu e, w- > e- \nu e^{\sim}$

Collider	Banner	Cross section (pb)
pp 6500 x 6500 GeV	tag_1	3.43e-06 ± 9.2e-09



- Loop-induced φ_2 pair production simulation (inc. prod. $9.05 \cdot 10^{-8}$ pb)

Transverse momentum distribution



The following plot uses 100k events, and were simulated in O(1h) on a cluster