

Nikolay's Report

2016-03-22

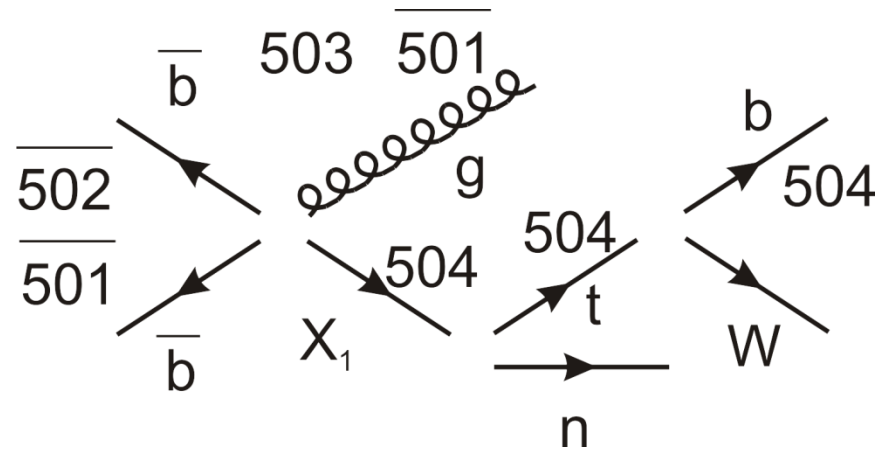
Monotop Error One Jet

- Problem is with madgraph; color doesn't add up in events with gluon coming from the first junction:

```

<event>
  -5  -1  0  0  0  502
  -3  -1  0  0  0  501
 6000001  2  1  2  504  0
   6  2  3  3  504  0
 5000001  1  3  3  0  0
  24  1  4  4  0  0
   5  1  4  4  504  0
  21  1  1  2  503  501
</event>

```



Monotop Error One Jet contd.

- Changing the color of the gluon fixes the problem:

```
<event>
  -5  -1  0  0  0  502
  -3  -1  0  0  0  501
 6000001  2  1  2  504  0
    6  2  3  3  504  0
5000001  1  3  3  0  0
   24  1  4  4  0  0
    5  1  4  4  504  0
   21  1  1  2  503  501
</event>
```

```
<event>
  -5  -1  0  0  0  502
  -3  -1  0  0  0  501
 6000001  2  1  2  504  0
    6  2  3  3  504  0
5000001  1  3  3  0  0
   24  1  4  4  0  0
    5  1  4  4  504  0
   21  1  1  2  503  503
</event>
```

Next Steps

- Now looking at 2 jets.
 - Will post on the madgraph site.
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