



Weekly report

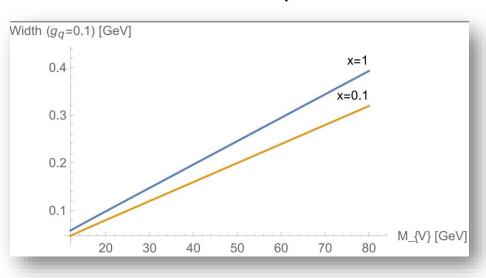
Qiyu Sha

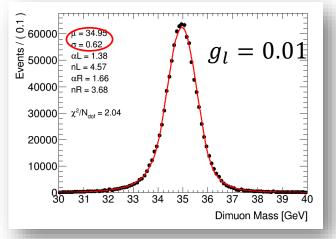
Institute of High Energy Physics CAS, Beijing

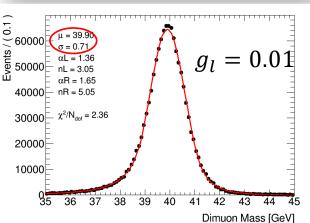
Zprime to mumu

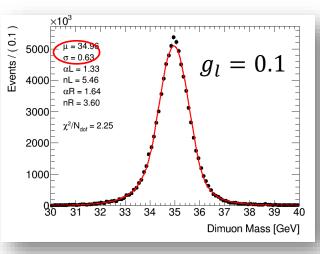
- Reorganize the INT note (We have redone this analysis in the past month.)
- New Contact (Yasu Okumura from UTokyo) will give the EB request tomorrow.
- \triangleright Check the effect of different couplings g_l , g_q on the shape (intrinsic / resolution)

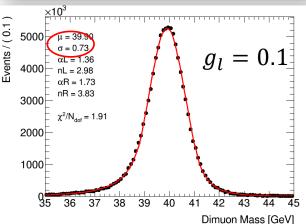
Intrinsic: Ref, $x = g_l/g_q$









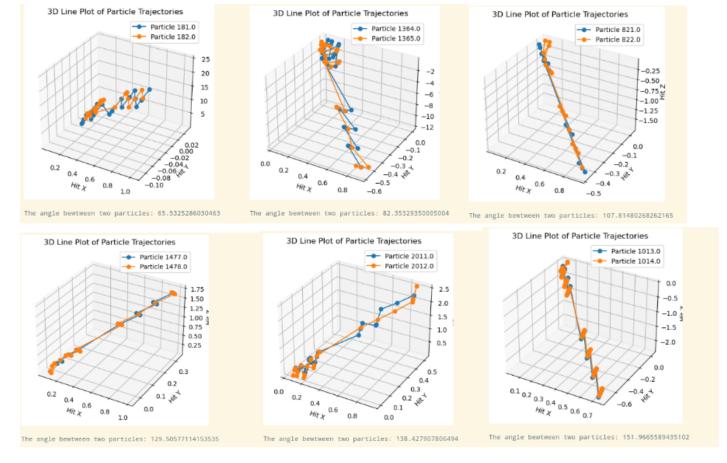


2023/9/10

Qiyu S

Quirk track ML

- Discuss to use some way to do the pre-selection and pick up some easy track to train first.
- > Studied the relationship between the quirk track and the initial angle/momentum of the quirk pairs.
 - For example:



No obvious correlation was found but there should be some correlation theoretically, need to check more.

Di-higgs yyML

- Prepare VBF klamda sample.
- Will work on it in the next two weeks.

QPT

- Debug and fix bugs.
- Not work well till now.