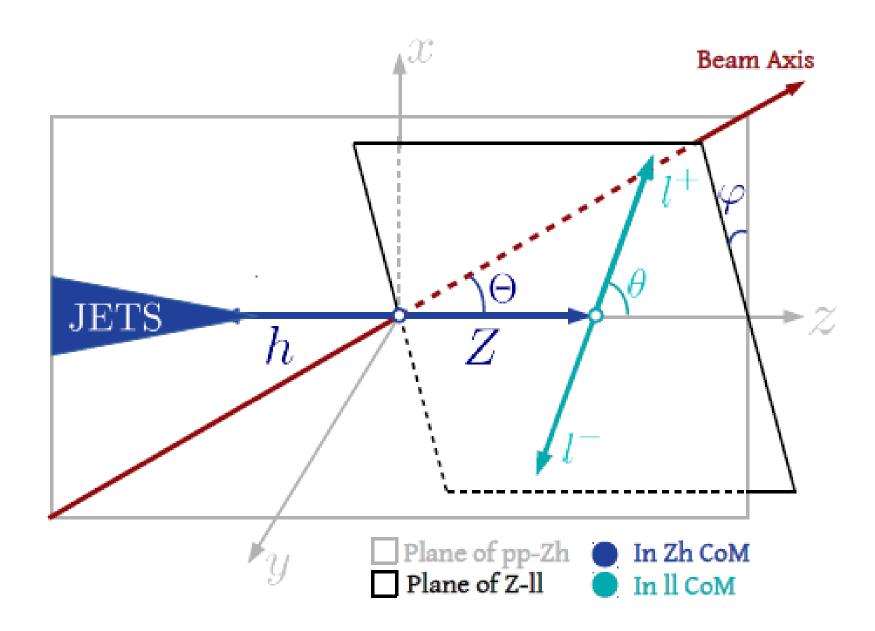
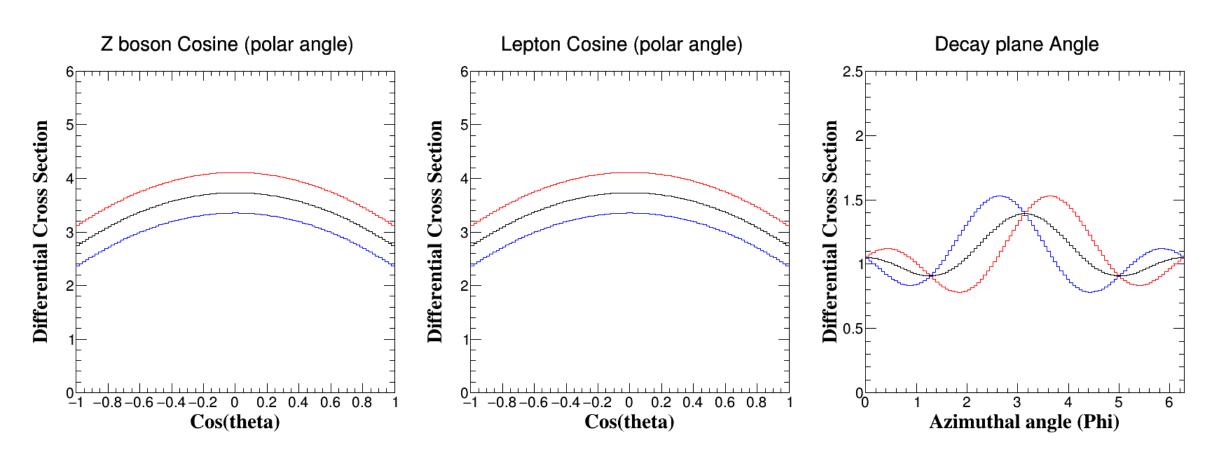
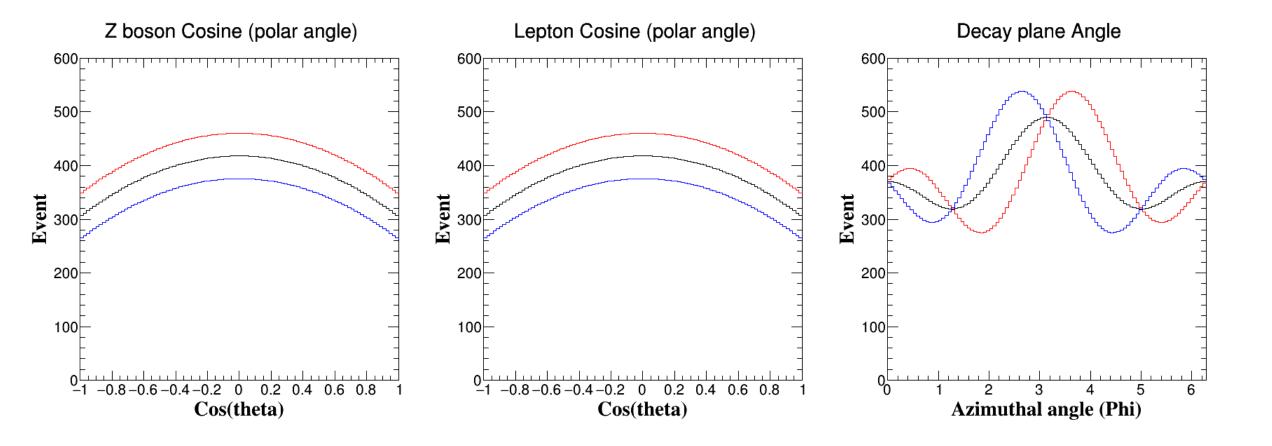
Recent status of HZZ EFT study



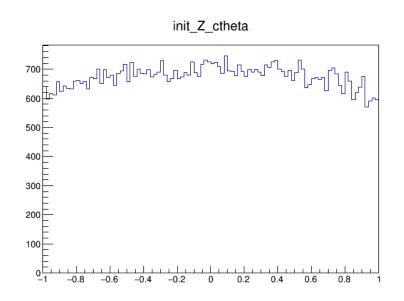
black line: SM Red/Blue: BSM

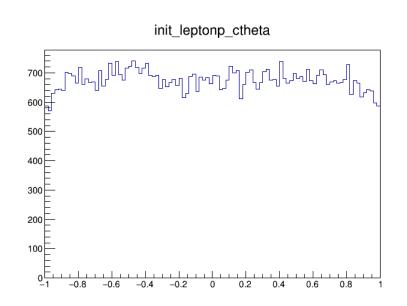


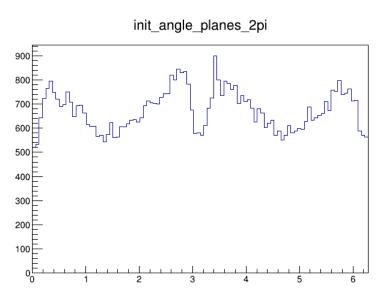
The total cross section is normalized with the value what we used. That's would be one of further investigation



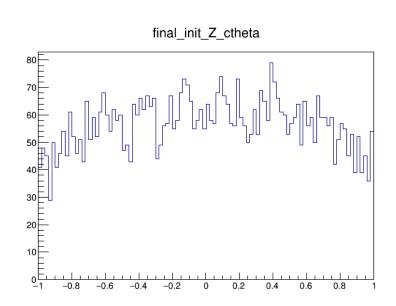
Angle dependence (for CEPC MC samples)

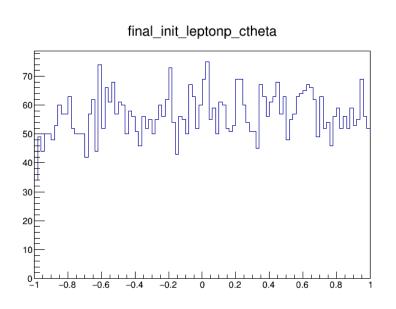


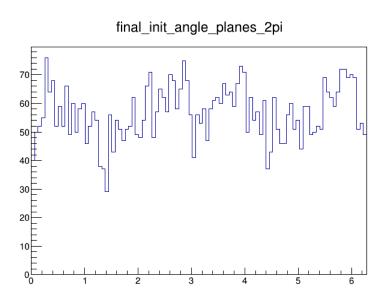




Angle dependence (after all of "vvjj" cuts)







no scaling . $\sim 1/10$?

Constraining anomalous HVV interactions at proton and lepton colliders

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³ Argonne National Laboratory (ANL), Lemont, IL 60439, USA
(Dated: September 19, 2013)

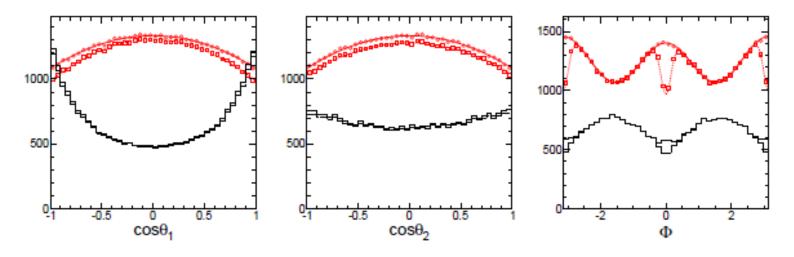


FIG. 25: Distributions of the observables in the $e^+e^- \to ZH$ analysis at $\sqrt{s} = 250$ GeV, from left to right: $\cos \theta_1$, $\cos \theta_2$, and Φ . Points (red) show simulated events for the SM Higgs boson with curves showing projections of analytical distributions. Histograms (black) show background distributions. Distributions before (solid) and after (dashed) detector acceptance effects are shown.

Next (for this issue)

- -- Adjust the scaling
- -- Try to apply the algorithm on the vertex $(H->ZZ^*)$
- -- Think about if this topic can explore some parameter space
- -- Consider about the detector acceptance

Items

- -- Start to write the CEPC memo
 - -- results we have so far
 - -- we can update during or after the first version

-- Studies

- -- signal fitting / combination
- -- daltz plot
- -- EFT