

Introduction

Yaquan Fang

Workshop in November

- Physics/simulations will have separated (parallel sections) under detector section.
 - Hope Physics section a joint one with theory (which will not occupy space in theory sections):
 - HL-LHC and CEPC challenge for EWK
 - HL-LHC and CEPC challenge for Higgs
 - 1 kappa framework results
 - 1 EFT (including EWK) + combination
 - new physics perspectives at CEPC
 - Whizard Generator towards CEPC
 - Fast simulation for CEPC
- If these two talks can be taken by theory section, we can more time for discussion

List

- combination and kappa analysis: **Jin**, Kaili, Yaquan and **Liu Zheng**
- - EFT: **Jiayin**, Liantao et al.,
- - implications: **Liantao** Shufang, et al.,
- - simulations: **Manqi**, Li Gang et al.,
- - collider and detector: Joao, **Manqi** et al.,
- - introduction: **Liantao** et al.,

Globally: **Jianming**

Volunteers are more than welcome

- Not so clear ones are:
- - higgs recoiling tagging, mass and XS measurements
- - decays: need name list for each channel;

3.5 Production rates of individual Higgs Boson decay modes

3.5.1 $H \rightarrow b\bar{b}, c\bar{c}, gg$ **Chunhui**, Zhijun

3.5.2 $H \rightarrow WW^*$ **Nikos**, Jianming, Lianliang

3.5.3 $H \rightarrow ZZ^*$ **Zhuoni Qian**, Tao Han

3.5.4 $H \rightarrow \gamma\gamma$ Jin Wang, **Yaquan** H→tautau **Xin Chen**

3.5.5 $H \rightarrow \mu^+\mu^-$ **Haifeng**

3.5.6 $\sigma(e^+e^- \rightarrow \nu\bar{\nu}H) \times \text{BR}(H \rightarrow b\bar{b})$ H→Zγ **Weiming**

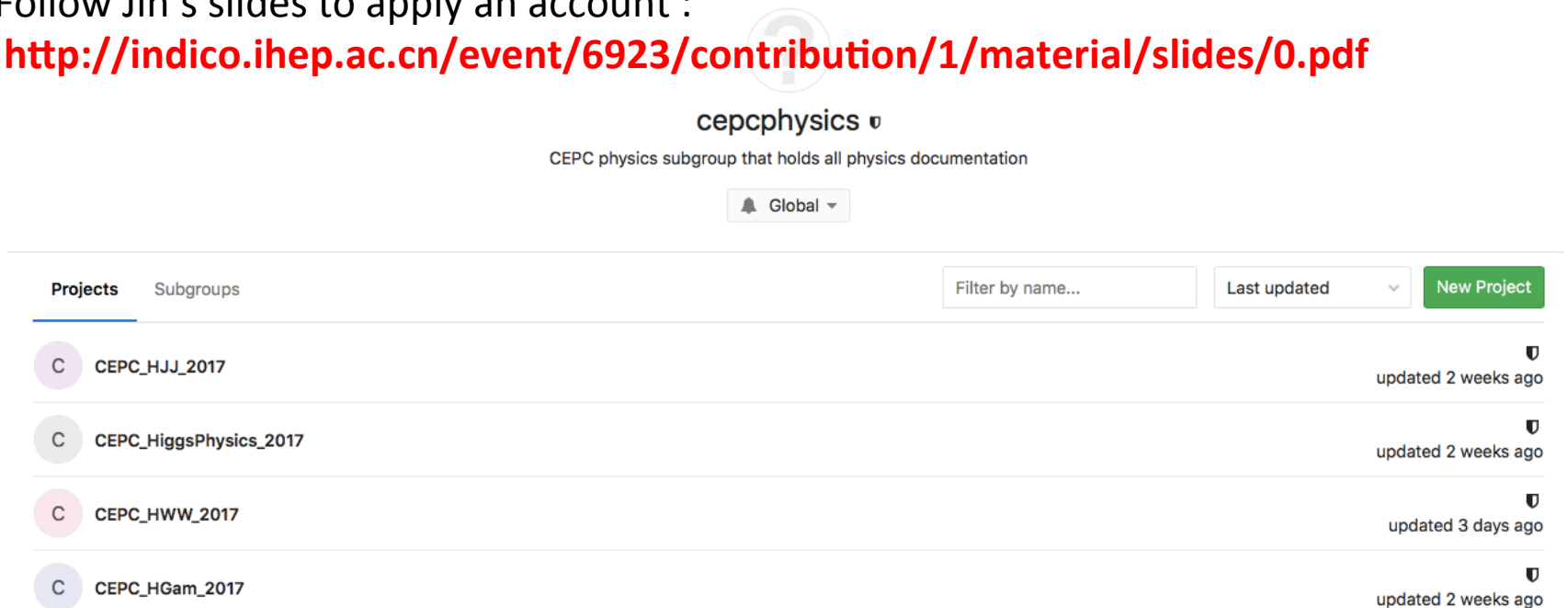
3.5.7 Higgs boson decays to exotic particles

Git for physics white paper

- <http://cepcgit.ihep.ac.cn/cepcdoc/cepcphysics>

Follow Jin's slides to apply an account :

<http://indico.ihep.ac.cn/event/6923/contribution/1/material/slides/0.pdf>



The screenshot shows the GitHub repository page for 'cepcphysics'. The repository description is 'CEPC physics subgroup that holds all physics documentation'. There is a 'Global' filter button. The 'Projects' tab is selected, showing a list of four projects: 'CEPC_HJJ_2017', 'CEPC_HiggsPhysics_2017', 'CEPC_HWW_2017', and 'CEPC_HGam_2017'. Each project has a 'C' icon and a lock icon, indicating they are collaborators. The update times are 'updated 2 weeks ago', 'updated 2 weeks ago', 'updated 3 days ago', and 'updated 2 weeks ago' respectively. A 'New Project' button is visible in the top right.

Project	Update Time
CEPC_HJJ_2017	updated 2 weeks ago
CEPC_HiggsPhysics_2017	updated 2 weeks ago
CEPC_HWW_2017	updated 3 days ago
CEPC_HGam_2017	updated 2 weeks ago

How to use it (similar as svn)

Below is a very simple instruction on the usage of git only for those who never used git. This instruction resembles the svn and ignores some key features of git.

- To download the repository (same as "svn co"), do:

```
git clone http://cepcgit.ihep.ac.cn/cepcdoc/cepcphysics/CEPC_HiggsPhysics_2017
```

- Once you created a new file or made any changes on existing file "modifiedfile.tex", do (similar as "svn ci -m" but not submit to the server yet):

```
git add modifiedfile.tex
```

(In svn you use "svn add" to stage a new file. While in git both new files and new modifications need to be staged with "add")

```
git commit -m "messages about your modifications"
```

You can also use "-am" to do the "add" and "commit" the same time with all the changes you made (but if there are new files/directories, you need to use the full version "git add"):

```
git commit -am "messages about your modifications"
```

- If you want to push the commits you've done back up to the server (this plus previous step will serve as "svn ci -m" and it requests access rights):

```
git push
```