

SKKU-HEP-CMS Weekly Meeting

**At 04.Mar.2015
by DongHyun Kim**

Status

Top study

1. Task from Dr. Roh
 - Draw Histogram – THStack style
 - ntuple_00 ~ ntuple_XX.root : Merge
 - Scale to $1fb^{-1}$
 - Search for total events

`/TTJets_MSDecaysCKM_central_Tune4C_13TeV-madgraph-tauola/Phys14DR-PU20bx25_PHYS14_25_V1-v1/AODSIM`

- Number of events: 25446993

`/DYJetsToLL_M-50_13TeV-madgraph-pythia8/Phys14DR-PU20bx25_PHYS14_25_V1-v1/AODSIM`

- Number of events: 2829164

`/T_tW-channel-DR_Tune4C_13TeV-CSA14-powheg-tauola/Phys14DR-PU20bx25_PHYS14_25_V1-v17/AODSIM`

- Number of events: 986100

`/Tbar_tW-channel-DR_Tune4C_13TeV-CSA14-powheg-tauola/Phys14DR-PU20bx25_PHYS14_25_V1-v1/AODSIM`

- Number of events: 971800

`/WJetsToLNu_13TeV-madgraph-pythia8-tauola/Phys14DR-PU20bx25_PHYS14_25_V1-v1/AODSIM`

- Number of events: 10017930

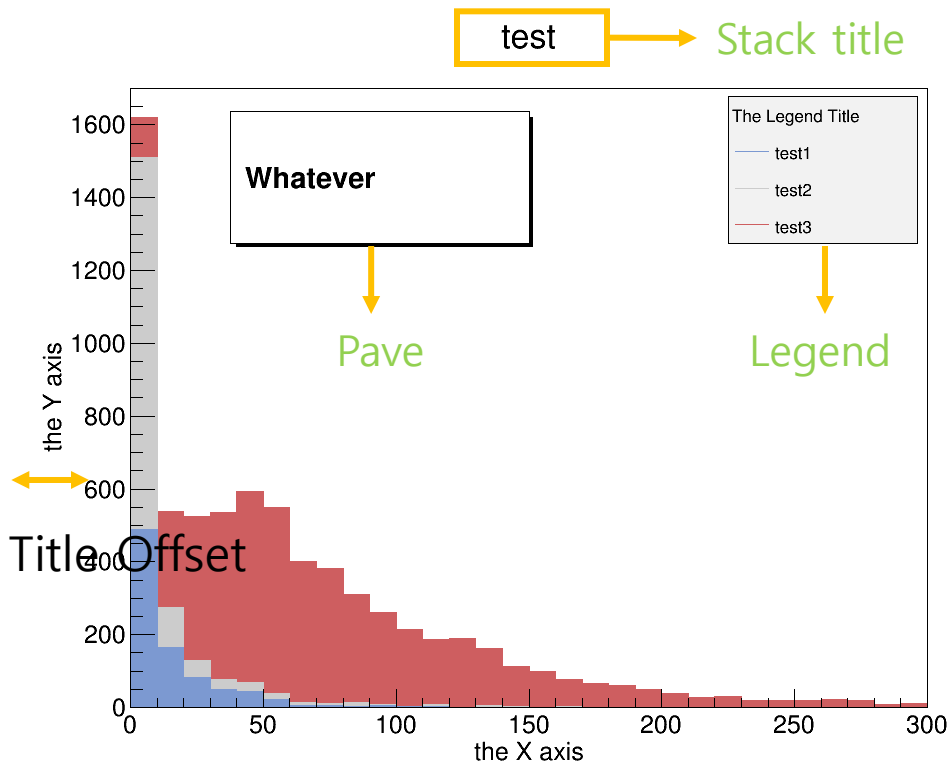
Progress report

1. Task from Dr. Roh
 - Drew THStack style histogram with 3 kind of data

Status

Top study

- Task from Dr. Roh



1. Need *.h files

- #include <THStack.h>
- #include <TLegend.h>
- #include <TLegendEntry.h>
- #include <Tbox.h>
- #include <TPaveStats.h>

2. THStack

```
THStack *a = new THStack("a","test");  
electrons_pt->SetLineColor(38);  
electrons_pt->SetFillColor(38);  
a->Add(electrons_pt);  
  
Tcanvas *c2 = new  
Tcanvas("c2","stack hist",10,10,1000,800);  
a->Draw();  
a->GetXaxis()->SetTitle("the X axis");  
a->GetXaxis()->CenterTitle();  
a->GetYaxis()->SetTitleOffset(1.4);
```

3. For Legend and Pave

```
TPaveText *pt = new  
TPaveText(0.2,0.7,0.05,0.87,"NDC");
```

```
pt->SetFillColor();  
pt->SetTextSize();  
pt->SetTextAlign();  
pt->AddText("");  
pt->Draw();
```

```
leg = new Tlegend(0.7,0.7,0.89,0.89);  
leg->SetHeader("");  
leg->  
AddEntry(electrons_pt,"name",:type");  
leg->Draw();
```

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[/T_tW-channel-DR_Tune4C_13TeV-CSA14-powheg-tauola/Phys14DR-PU20bx25_PHYS14_25_V1-v1/AODSIM](#)

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[/Tbar_tW-channel-DR_Tune4C_13TeV-CSA14-powheg-tauola/Phys14DR-PU20bx25_PHYS14_25_V1-v1/AODSIM](#)

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1. For Scale in the program code

```
#define Cross_Xsec
```

```
#define Nevt
```

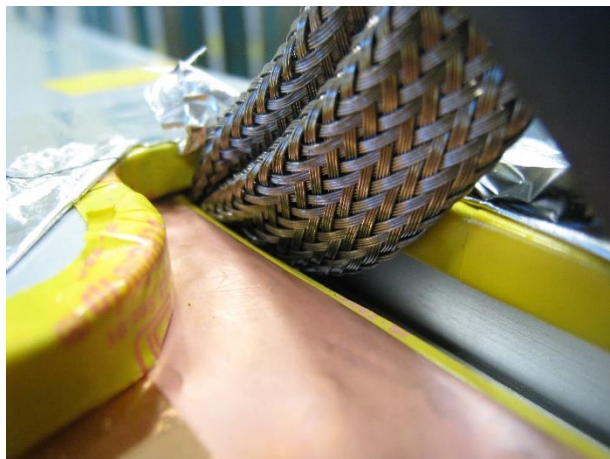
```
double Lumi = Nevt/Cross_Xsec;
```

```
histogram(TH1D)->Scale(1/Lumi); // Notmalize to  $1fb^{-1}$ 
```

Status

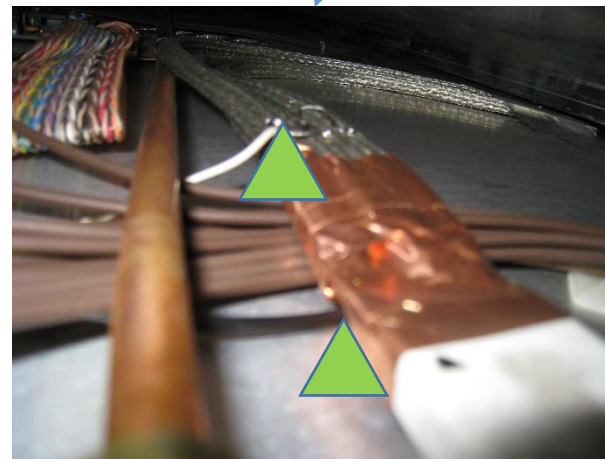
RPC progress

1. Chamber ground condition check



< RE3 type old chamber in QC4(904) >

< RE3 Chamber at P5 >



Status

RPC progress

1. Connector switching(Tripolar -> Jupiter type)
2. Teach about Tripolar connector work
3. Problematic chambers repair and teach

