Subject: Re: Different results for same information extracted in different ways Posted by Mamen on Fri, 07 Nov 2014 13:59:07 GMT

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Thanks a lot Klaus,

Looping over Nbins+2 in the histogram created using "->Project();" helps me getting the same number of events than using ->GetEntries();

However I still need to understand why I don't get the same number of entries looping over the tree or doing a Project.

I checked out the values that were being filled in the tree like that:

kk++;

(cosThetaP, Pz, Px and Py are defined from the branch addressed variables, and cosThetaP is the variable I want at the end fill in the Histogram) and I saw that costThetaP, as well as Pz and sqrt(...) were showing sometimes "-nan" value.

So I added a variable that counted how many times I was getting nan:

```
if (isnan(cosThetaP))
 {
    fail++;
    //cout << "cosThe is nan"<<endl;
}</pre>
```

However, the number of entries still don't match.

In addition I have also got the number of entries from the histogram filled looping over the Tree, summing up over Nbins, summing up over Nbins+2 and using GetEntries(), and the results are very strange.

For different files I get:

379395

2

465690

14101

510432

4	505865	380024	0	22111
3	646731	373536	0	11467

Before filling the histogram looping over the tree I've initialized them using

```
for (int b=0; b<Nbins+2; b++)
{
    Eff->SetBinContent(b, 0);
    Eff->SetBinError(b, 0);
    Reco->SetBinContent(b, 0);
    Reco->SetBinError(b, 0);
}
```

Can the over/underflow bins have negative values??? even after initializing them to 0 values???