

Since I am still unsure about how the momentum corrections sector notation matches up to the phi that I get from my four-vectors, I considered both cases. When we have it figured out, We can pick the right case.

For now the two cases are:

Case 1:

If sector-1 center is at "-pi" in my four-vector notation, I use :

`new_phi = phi_degrees + 180. , to translate it into the correct momentum correction notation.`

Case 2:

If sector-1 center is at "0" in my four-vector notations, I use :

```
if ( phi_degrees < -30. ) {  
    phi_degrees = 360 + phi_degrees;  
    //cout << "new phi :: " << phi_degrees << endl;  
}
```

to translate it into the correct momentum correction notation.

Note: My four-vectors are obtained initially from BOS data using the CLASEvent functions - CLASParticle and fourVec.

I have double-checked that these kludge works for all the cases I could come up with.

This is obviously not ideal. If anyone can guide me as to how I can use that vector map and get it to work with root, that would be good.

This can at least serve as a template for the people using root, in case they cannot get this to work either. Also, We get the corrected four-momentum with the same orientation as the initial four-momentum, and the invariant mass for each particle type is enforced.