
Subject: getting run_rutherford to calculate eta parameter [SOLVED]

Posted by [Raphael Cervantes](#) on Wed, 14 Nov 2012 20:18:02 GMT

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Hi all,

I would like to request help in modifying fairroot to give me information about $\eta = -\log(\tan(\theta/2))$, which is a very common parameter for understanding detector physics. Moreover, I think it should calculate eta by default, in the same way that it calculates phi and theta by default.

To give more background:

The way fairbase is in the repository, if you do

```
root fairroot/examples/rutherford/macros/run_rutherford.C
```

the output is contained in fairroot/examples/rutherford/macros/data/test.mc.root.

If I open the root file

```
root data/test.mc.root
```

```
TBrowser j
```

Then you will see the attached image. I would like to modify fairroot to include information about eta as one of the leaves of FairRutherfordPoint. Can someone tell me how to do that? Would I need to make changes to FairRutherfordPoint? FairMCPoint? etc...

I hope I'm making myself clear. All help is greatly appreciated

-Raphael

File Attachments

1) [test.mc.root.png](#), downloaded 259 times
