
Subject: Quick analysis tool

Posted by [Klaus Götzen](#) on Mon, 02 Feb 2015 09:38:22 GMT

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Hi all,

in case you have sometimes the need to take a quick analysis look to a physics channel and aren't afraid of black-boxes I just checked in some tools to trunk/tutorials/analysis which e.g. reduces our standard analysis $p\bar{p} \rightarrow J/\psi \rightarrow e^+ e^- \pi^+ \pi^-$ to a one-liner

```
root 'quickana.C("jpsi2pi_fast.root","J/psi -> e+ e-; pbarpSystem -> J/psi pi+ pi-",0,"fit4c:fitvtx:mwin(J/psi)=0.8")'
```

which actually takes `jpsi2pi_fast.root` containing `PndPidCandidates` as input and creates an output file containing the analysis ntuples. When using Fast Sim it is even possible to just-in-time run the generator and `fsim` before the analysis is performed, so you only need a decay file instead of the input root file.

```
root 'quickfsimana.C("jpsi2pi","decfiles/pp_jpsi2pi.dec",6.23,"J/psi -> e+ e-; pbarpSystem -> J/psi pi+ pi-",1000,"pbarpSystem","fit4c:fitvtx:mwin(J/psi)=0.8")'
```

If you are interested take a look to `tutorials/analysis` and the `README` file in there.

Best and have fun,
Klaus
