

How to run example.f in EPOS-LHC-3700 completely independently of Cosmos

0) Go to Cosmos/Import/Hidden/EPOS/ and

`cp -r epos-lhc-3700 somedir/`

1) Go to somedir

`cp MakefileOrig Makefile`

All 3400 in the Makefile—>3700

2) Edit example.f, and change the write statement so that

id, px,py,pz, E, $\sqrt{E^2-P^2}$ is written only if

abs(idhep(i)) is 211 (pion)

`make exampl`

will produce “EposEx”

3) Edit example.param and add lines below.

`set istmax 0`

`application hadron`

`model LHC ! can be "epos" for old epos 1.99`

`set nevent 1000 !number of events`

`set modsho 1 !printout after modsho events`

`set ecms 7000 !energy per nucleon in cms system`

`set laproj 1 !proj Z`

`set maproj 1 !proj A`

`set latarg 1 !targ Z`

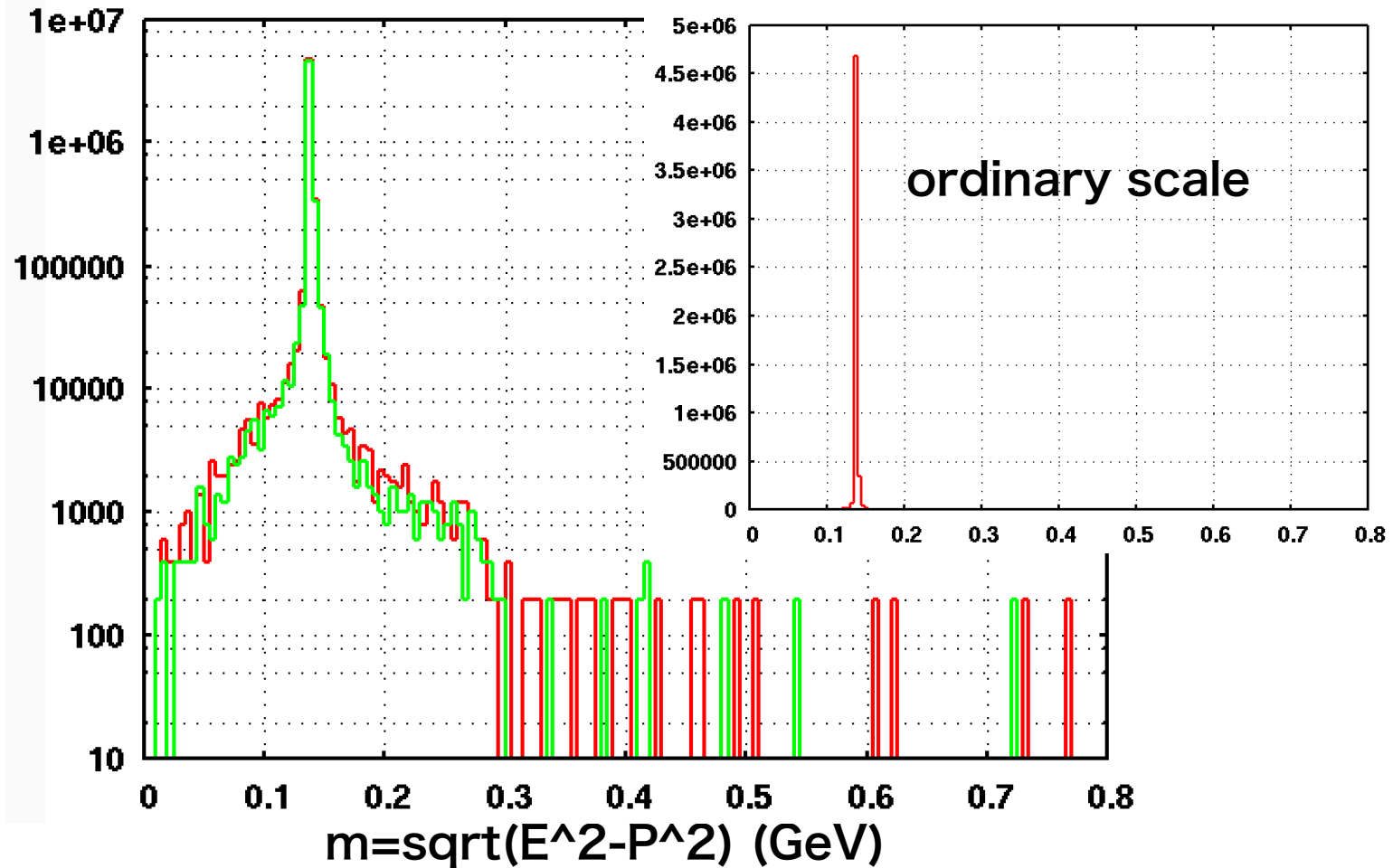
`set matarg 1 !targ A`

pp col. @ roots=7TeV

4) `./EposEx example.parm > outputfile`

dN/dm (dm=0.005)

1000 interactions



$E^2 > P^2$

$E^2 < P^2$:

π^+ 26582 206

π^- 25961 121