

Event generators for BOOST

- TESTER generator is used by default
- To use BES event generator GENBES
 - ◆ Source `~dengzy/.boostenv`
 - ◆ Edit genbes cards
 - You can copy them from `$GENBESROOT/exam`
 - ◆ Generate events using command “genbes”
- For GENBES help
 - ◆ `genbes -help (-h)`

Genbes cards

- **genbes.user**

- ◆ Job name

- job output files will be named as \$JOBNAME.genlog,
\$JOBNAME.evt

- ◆ output dir

- **genbes.cards**

- ◆ Ecm(GeV), NEvents

- ◆ generator name

- ◆ Here, particle ID is not according to standard PDGcode , for example, 1 is gamma

- ◆ please see \$GENBESROOT/gen/inc/xmchty.inc for particle ID reference,

Example of rho pi event

- 4
- 1 211 0 0 0.20271379E+00 0.11346756E+01 -0.64669937E-01 0.13957000E+00
- 1 -211 0 0 0.21732169E+00 0.27446496E+00 0.24055752E+00 0.13957000E+00
- 1 22 0 0 -0.28968093E+00 -0.11450411E+01 -0.16212197E+00 0.00000000E+00
- 1 22 0 0 -0.13035455E+00 -0.26409948E+00 -0.13765618E-01 0.00000000E+00
- Four particles in one event
- For each particle: status code, PDGcode, and px, py, pz, mass
- In the Ascii event file output by Genbes, particle ID is according to standard PDGcode, for example, 22 is gamma

Using GENBES events in BOOST

- Edit boost.cards

- ◆ #comment out tester generator

- ◆ #/generator/name tester

- ◆ #/generator/tester 1 pi- -0.8 0.8 0. 360. 1. 0.

- ◆ #using genbes

- ◆ /generator/name genbes

- ◆ /generator/genbes /d9/dengzy/tester.evt