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 PDG code, for example, 1 is gamma
  - please see `$GENBESROOT/gen/inc/xmchty.inc` for particle ID reference,
Example of rhopi event

- 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 GENCES 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`