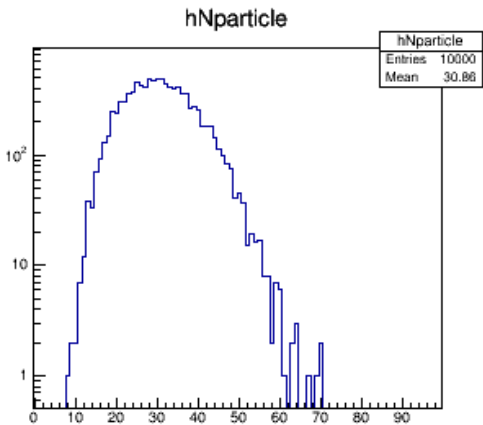


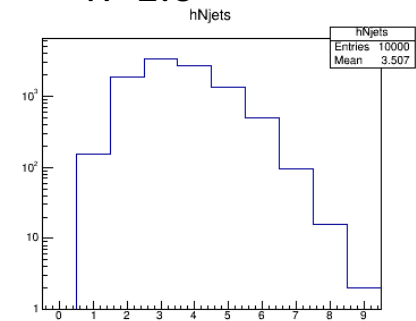
N JETS

PYTHIA
MSEL4 (Charm BGF)
 $Q_2 > 10 \text{ GeV}^2$
Nevents=10000

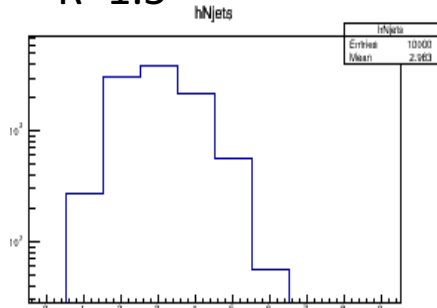
Fast JET algorithm
(anti-kT)



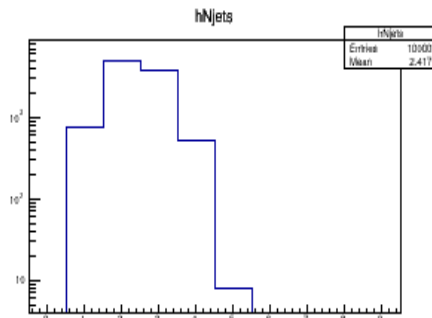
R=1.0



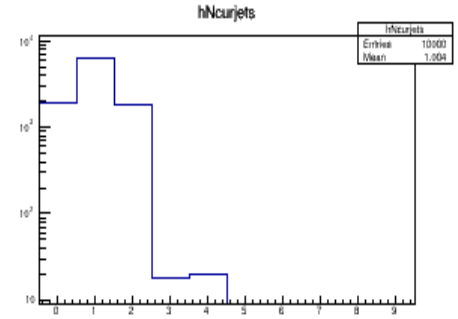
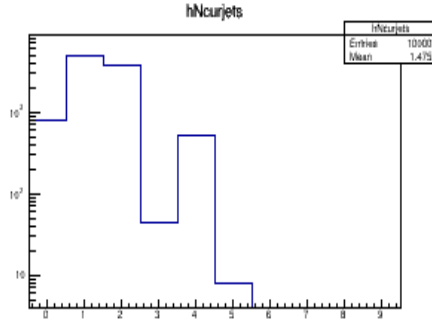
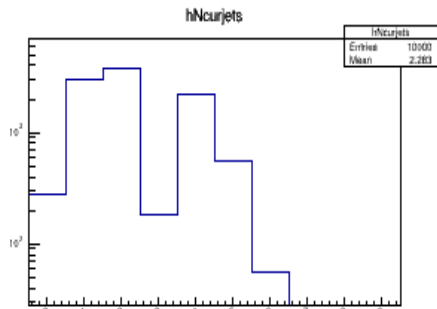
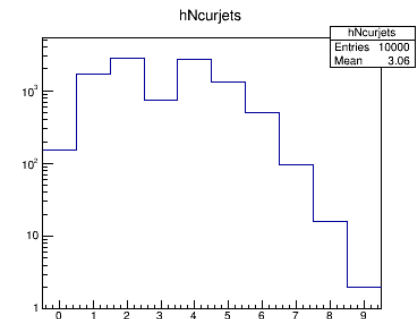
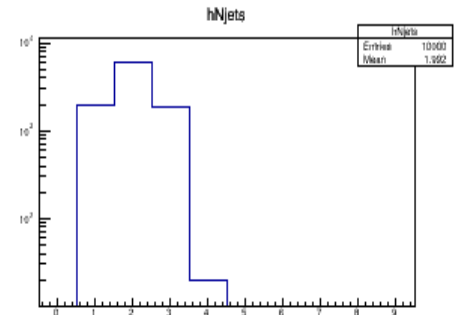
R=1.5



R=2.0



R=2.5

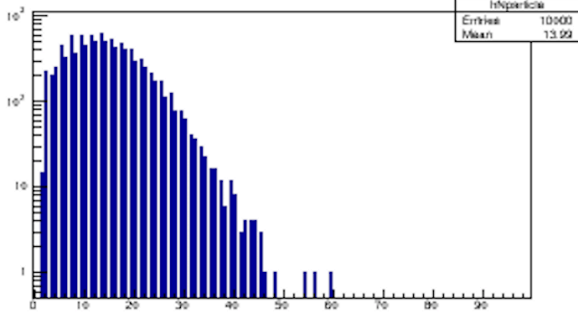


PHP ($Q^2 < 1$)

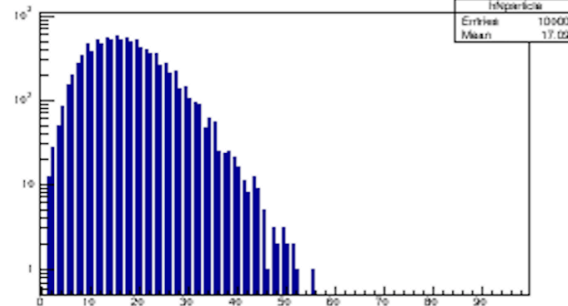
DIS ($Q^2 > 1$)

CHARM ($Q^2 > 10$)

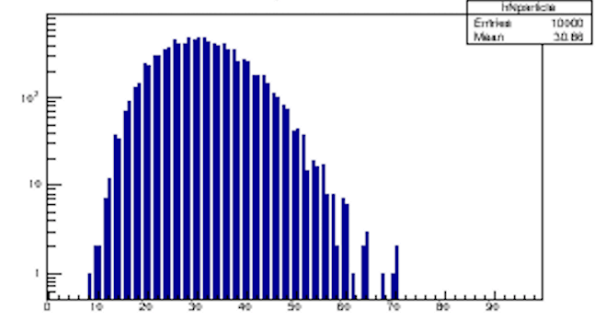
hNparticle



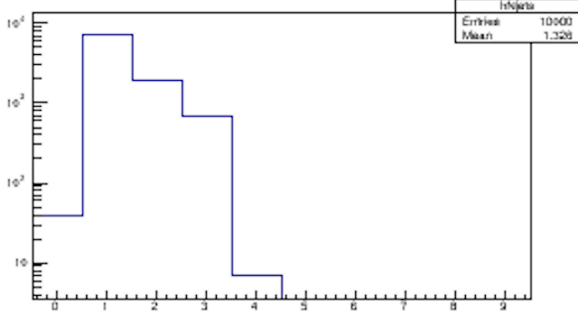
hNparticle



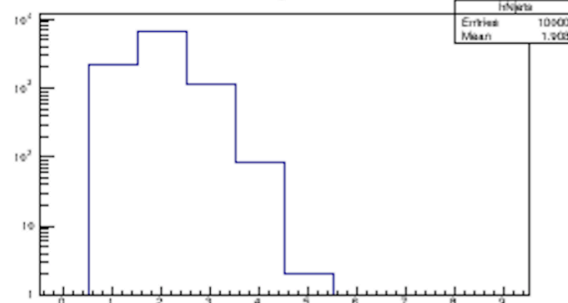
hNparticle



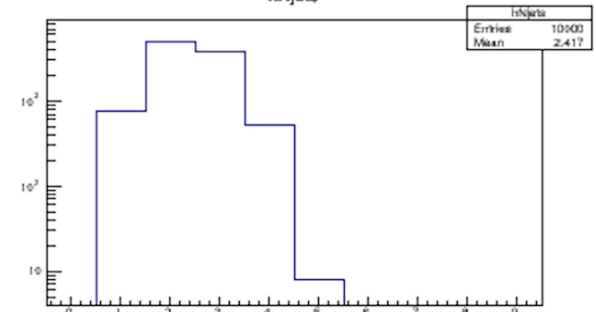
hNjets



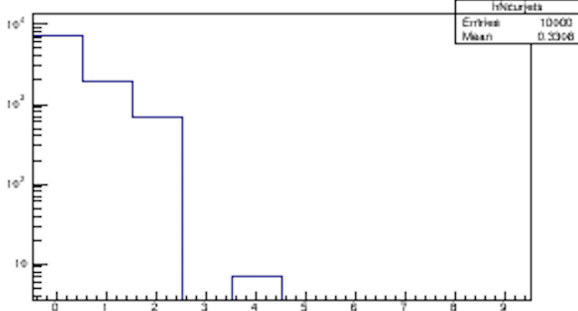
hNjets



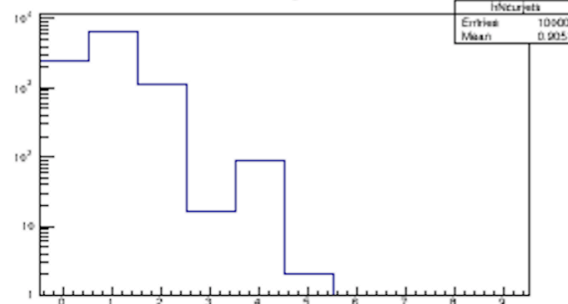
hNjets



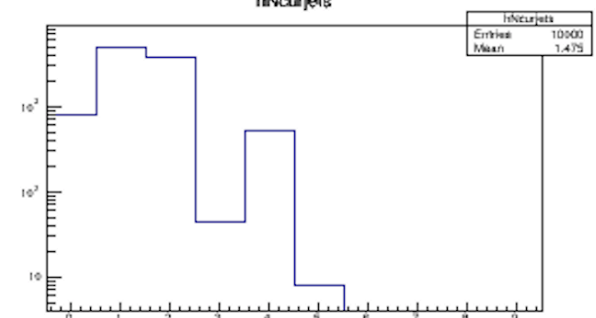
hNcurjets



hNcurjets



hNcurjets



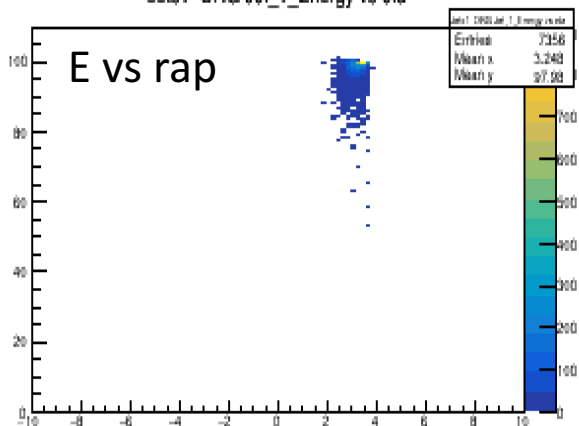
1 JET EVENT- REMNANT

PHP ($Q_2 < 1$)

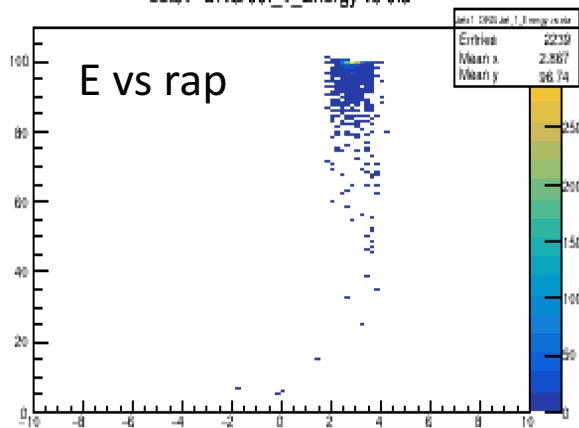
DIS ($Q_2 > 1$)

CHARM ($Q_2 > 10$)

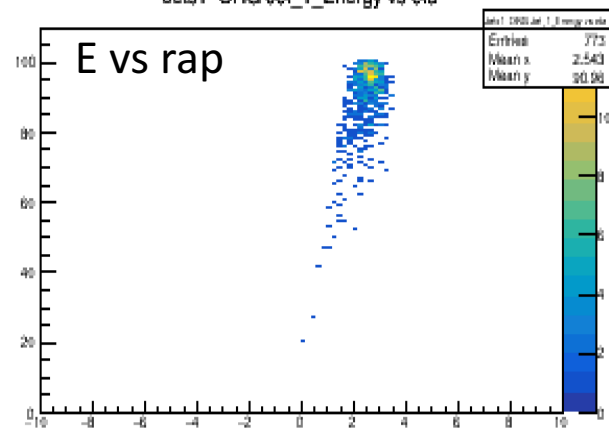
Jets1 ORG Jet_1_Energy vs eta



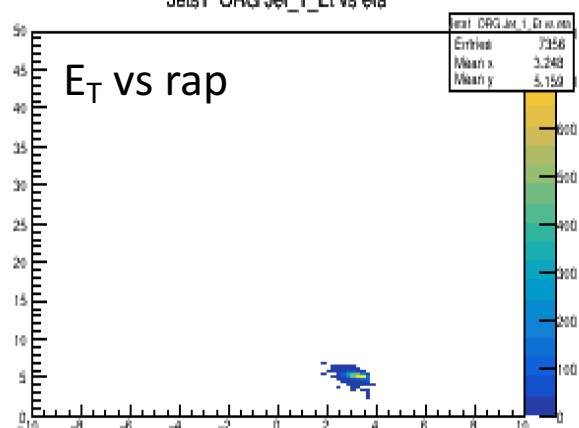
Jets1 ORG Jet_1_Energy vs eta



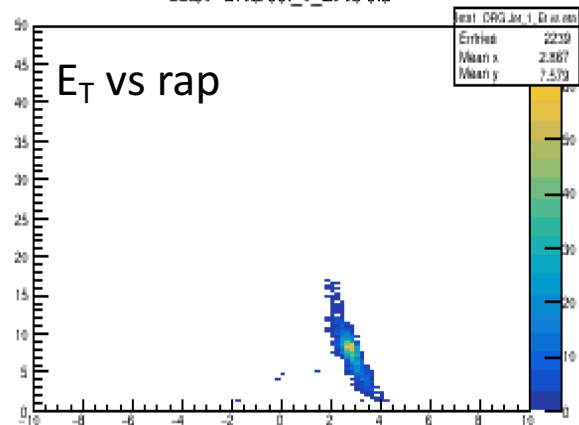
Jets1 ORG Jet_1_Energy vs eta



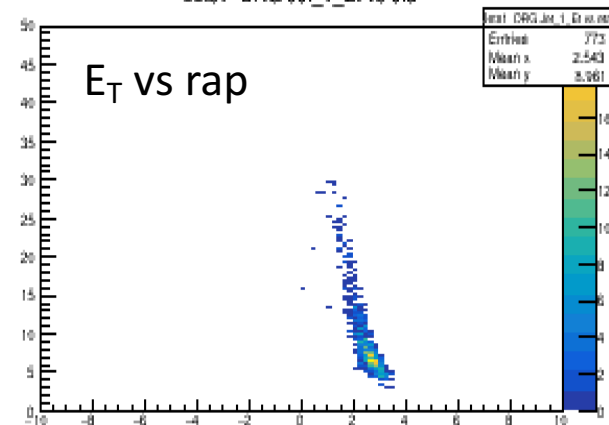
Jets1 ORG Jet_1_Et vs eta



Jets1 ORG Jet_1_Et vs eta



Jets1 ORG Jet_1_Et vs eta

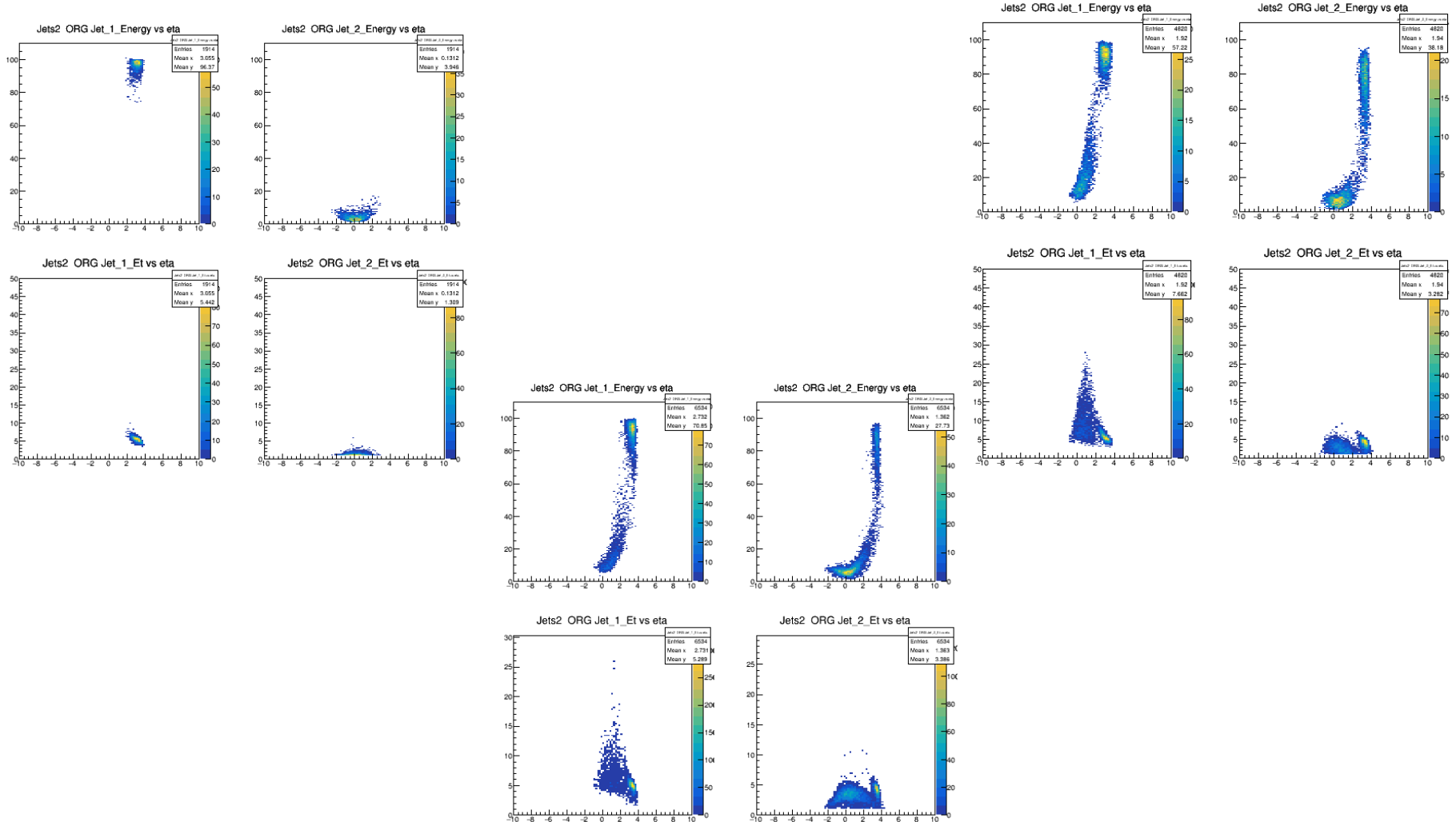


2 JETS EVENT- REMNANT

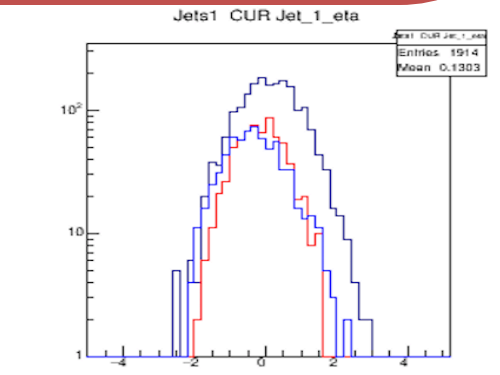
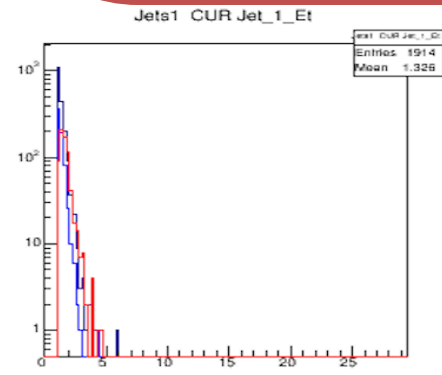
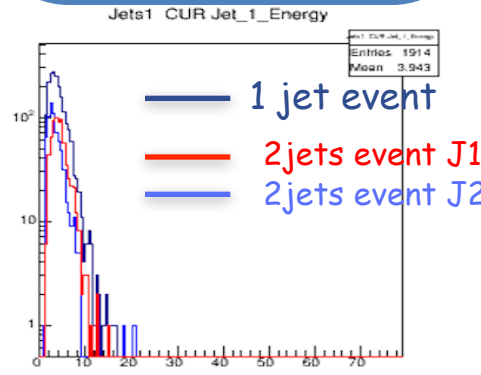
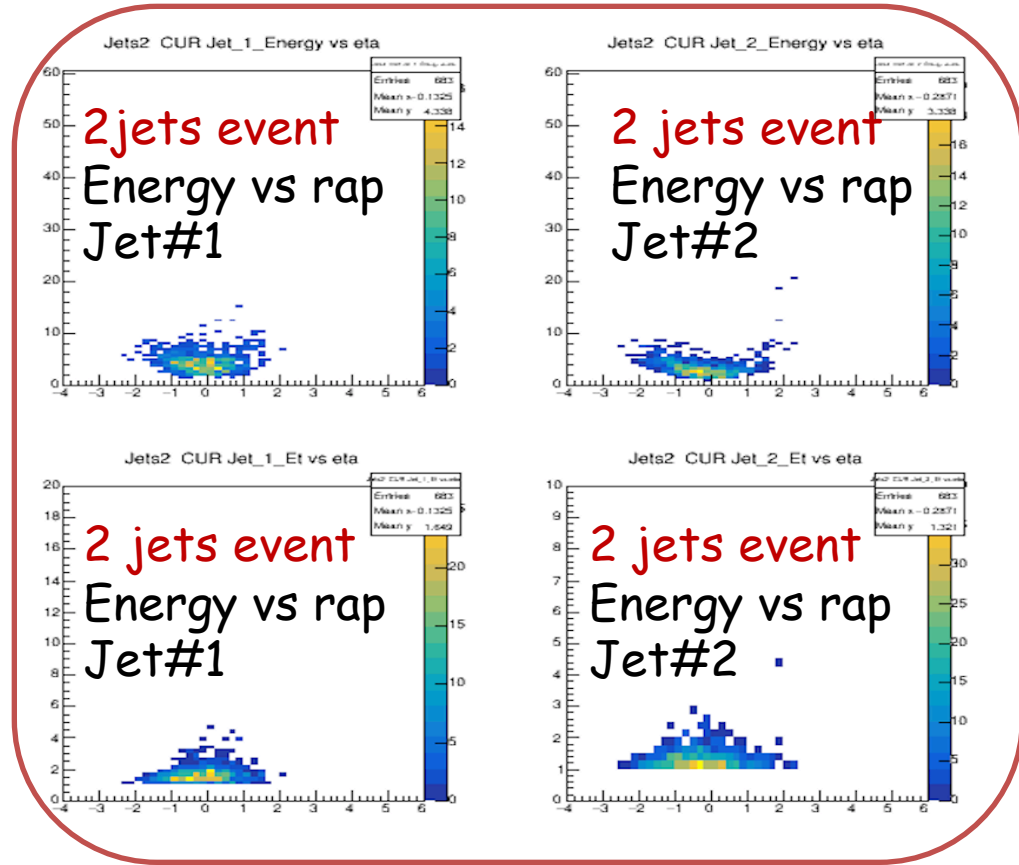
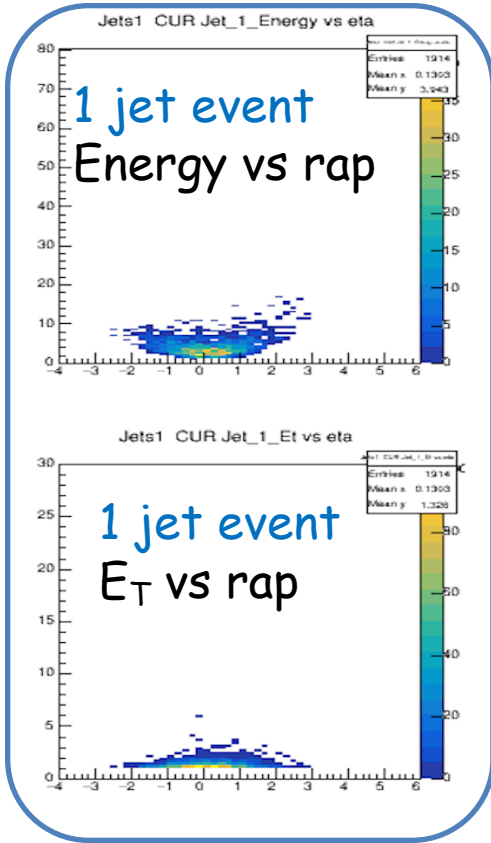
PHP (Q2<1)

DIS (Q2>1)

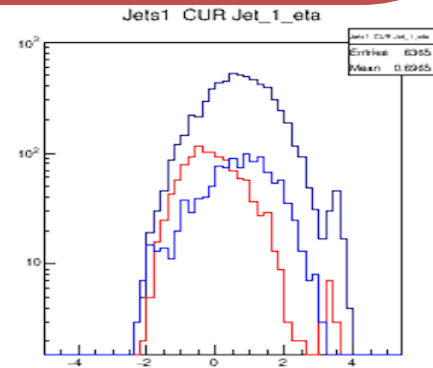
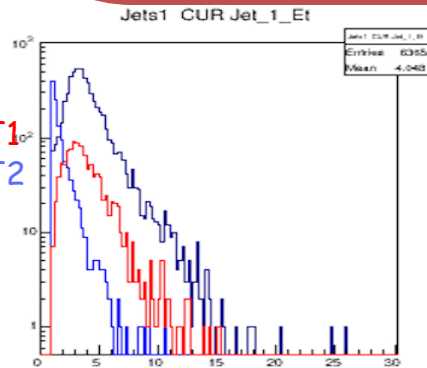
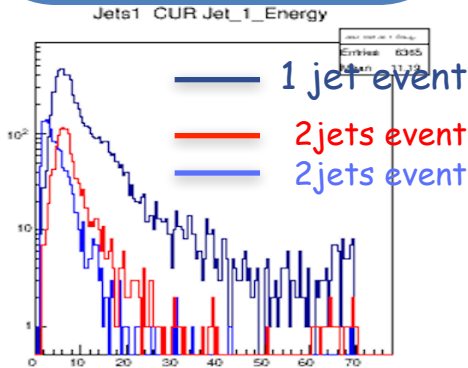
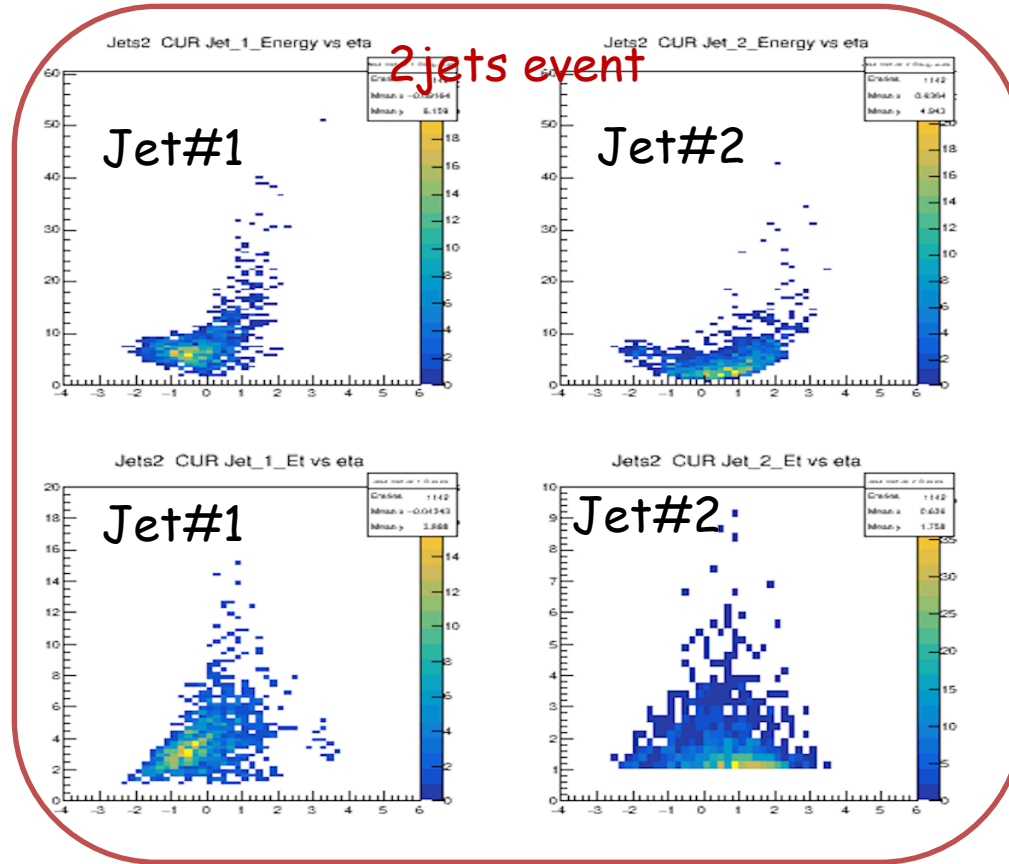
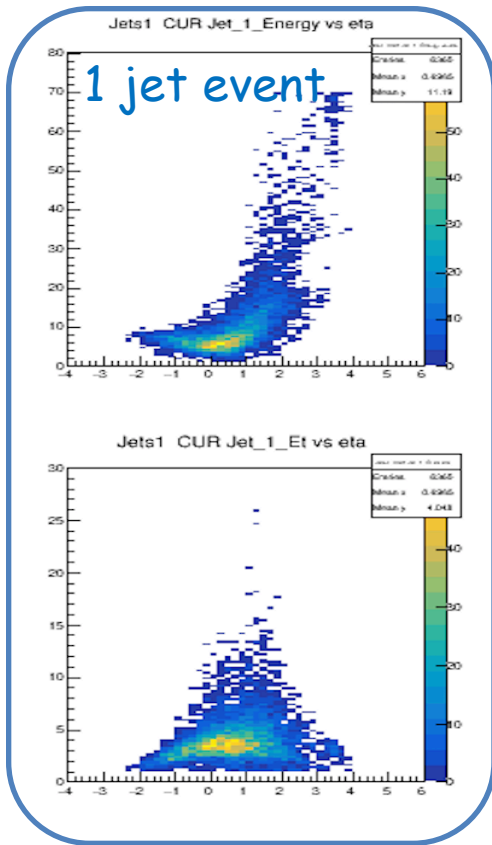
CHARM(Q2>10)



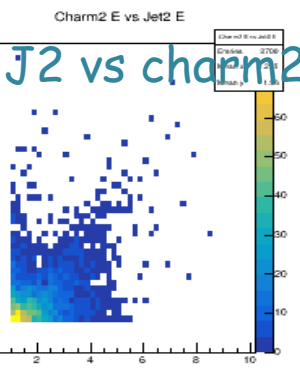
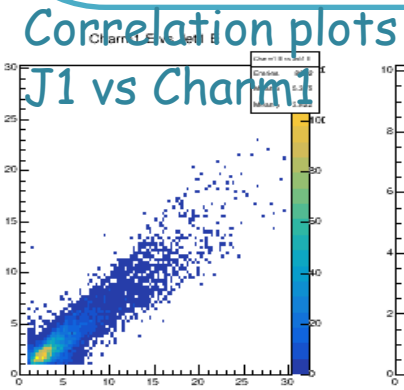
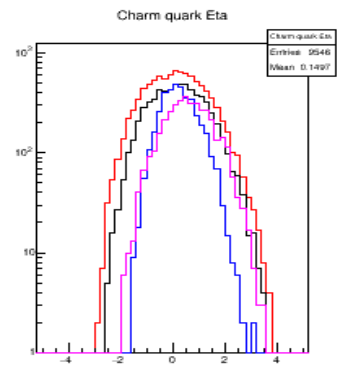
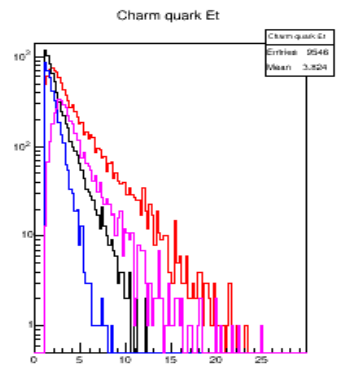
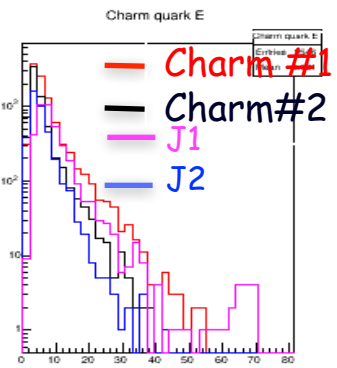
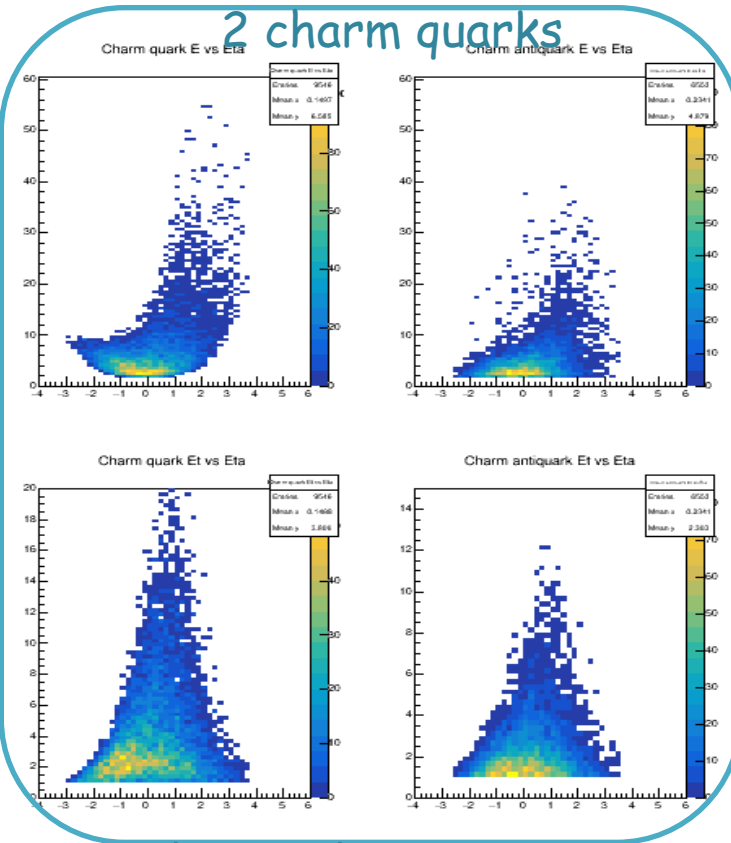
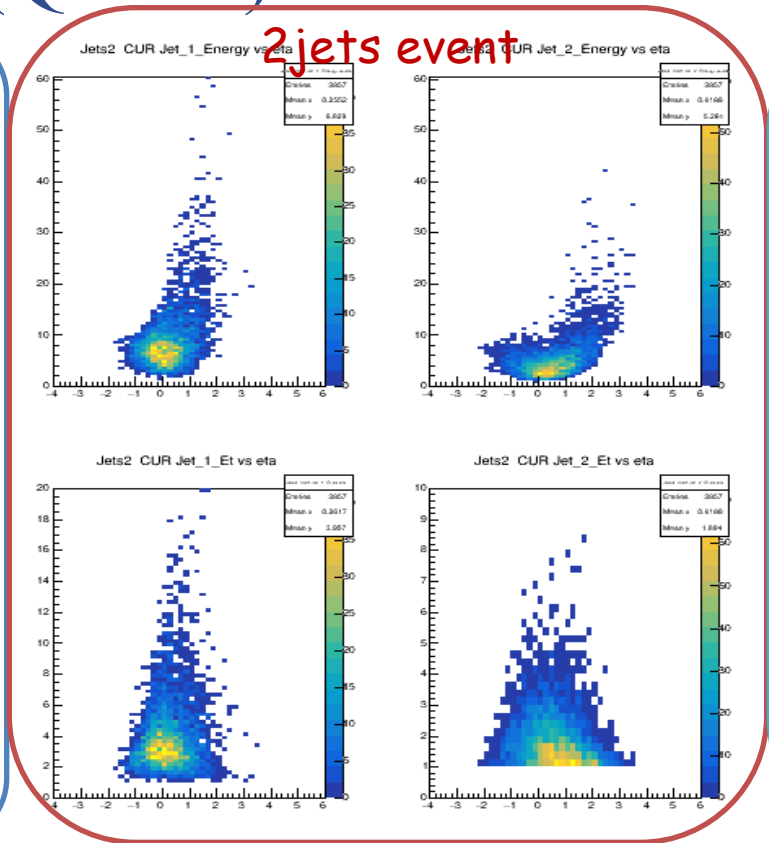
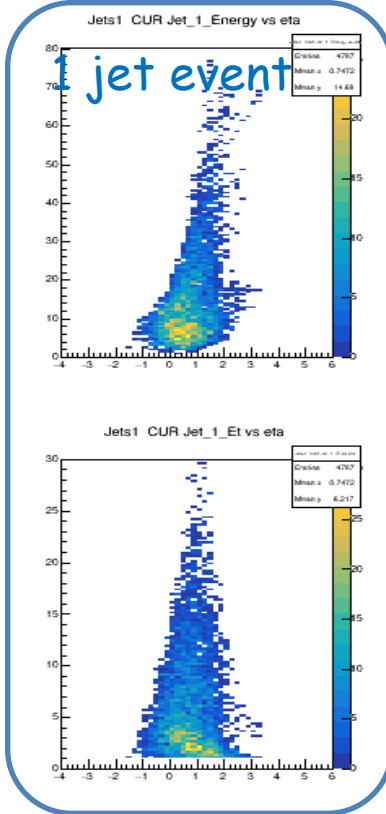
PHP (Q2<1) : CURRENT JETS ONLY



DIS ($Q^2 > 1$): CURRENT JETS ONLY



CHARM (Q2>10)

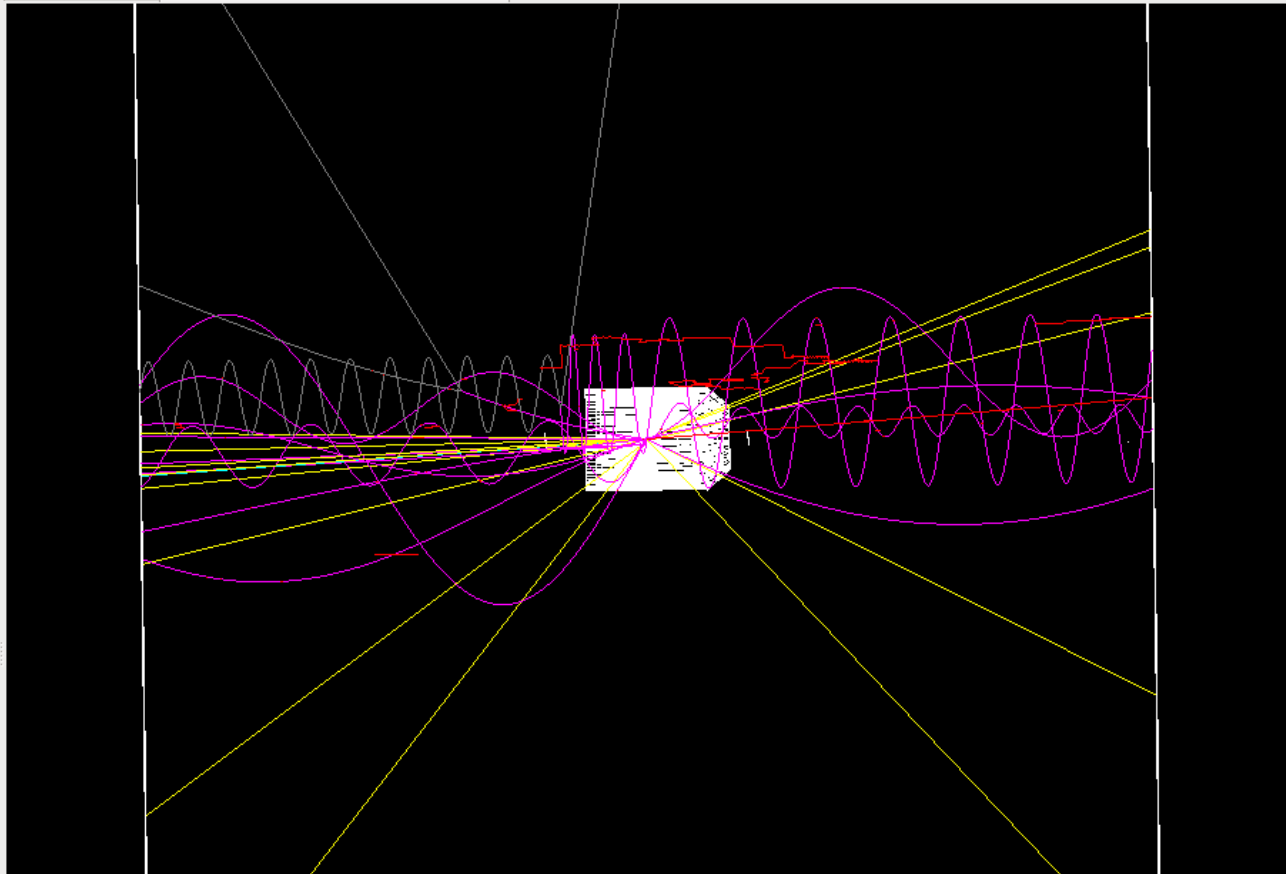


Search :

Command

- ▷ control
- ▷ units
- ▷ process
- ▷ geometry
- ▷ tracking
- ▷ event
- ▷ cuts
- ▼ run
 - ▷ particle
 - initialize
 - beamOn
 - verbose
 - printProgress
 - numberOfThreads
 - useMaximumLogicalCores
 - pinAffinity
 - eventModulo
 - dumpRegion
 - dumpCouples
 - optimizeGeometry
 - breakAtBeginOfEvent
 - breakAtEndOfEvent
 - abort
 - abortCurrentEvent
 - geometryModified
 - reinitializeGeometry
 - physicsModified
 - constructScoringWorlds
 - storeRndmStatToEvent
 - setCut
 - setCutForAGivenParticle
 - getCutForAGivenParticle
 - setCutForRegion
- ▷ random
- ▷ particle

Choose a command in the command tree



Output

Threads: All

```

WARNING: Viewpoint direction is very close to the up vector direction.
Consider setting the up vector to obtain definable behaviour.
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Consider setting the up vector to obtain definable behaviour.
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Consider setting the up vector to obtain definable behaviour.
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Consider setting the up vector to obtain definable behaviour.

```

Session :

VERTEX

TestEm 10

Scene tree, Help, History

Useful tips x viewer-0 (OpenGLImmediateQt) x

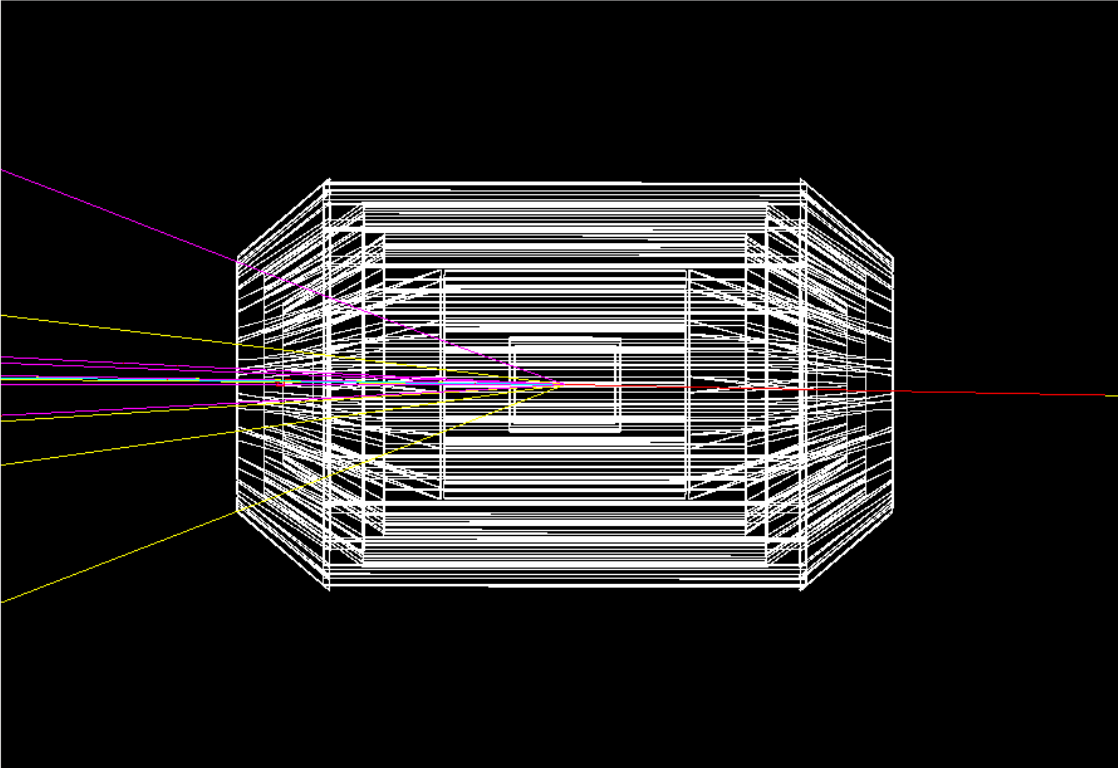
Scene tree Help History

Search :

Command

- ▷ control
- ▷ units
- ▷ process
- ▷ geometry
- ▷ tracking
- ▷ event
- ▷ cuts
- ▼ run
 - ▷ particle
 - initialize
 - beamOn**
 - verbose
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 - pinAffinity
 - eventModulo
 - dumpRegion
 - dumpCouples
 - optimizeGeometry
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 - breakAtEndOfEvent
 - abort
 - abortCurrentEvent
 - geometryModified
 - reinitializeGeometry
 - physicsModified
 - constructScoringWorlds
 - storeRndmStatToEvent
 - setCut
 - setCutForAGivenParticle
 - getCutForAGivenParticle
 - setCutForRegion
 - ▷ random
 - ▷ particle

Choose a command in the command tree



Output

Threads:

```
mean energy deposit in absorber=0 +- 0 MeV
mean number of steps in absorber (charged) =0 +- 0
mean number of steps in absorber (neutral) =0 +- 0
mean number of charged secondaries = 0 +- 0
mean number of neutral secondaries = 0 +- 0
mean number of e-s =0 and e+s =0
(number) transmission coeff=0 reflection coeff=0
/vis/viewer/update
WARNING: 1 event has been kept for refreshing and/or reviewing.
"/vis/reviewKeptEvents" to review them.
```

Session :

Scene tree, Help, History

Scene tree Help History

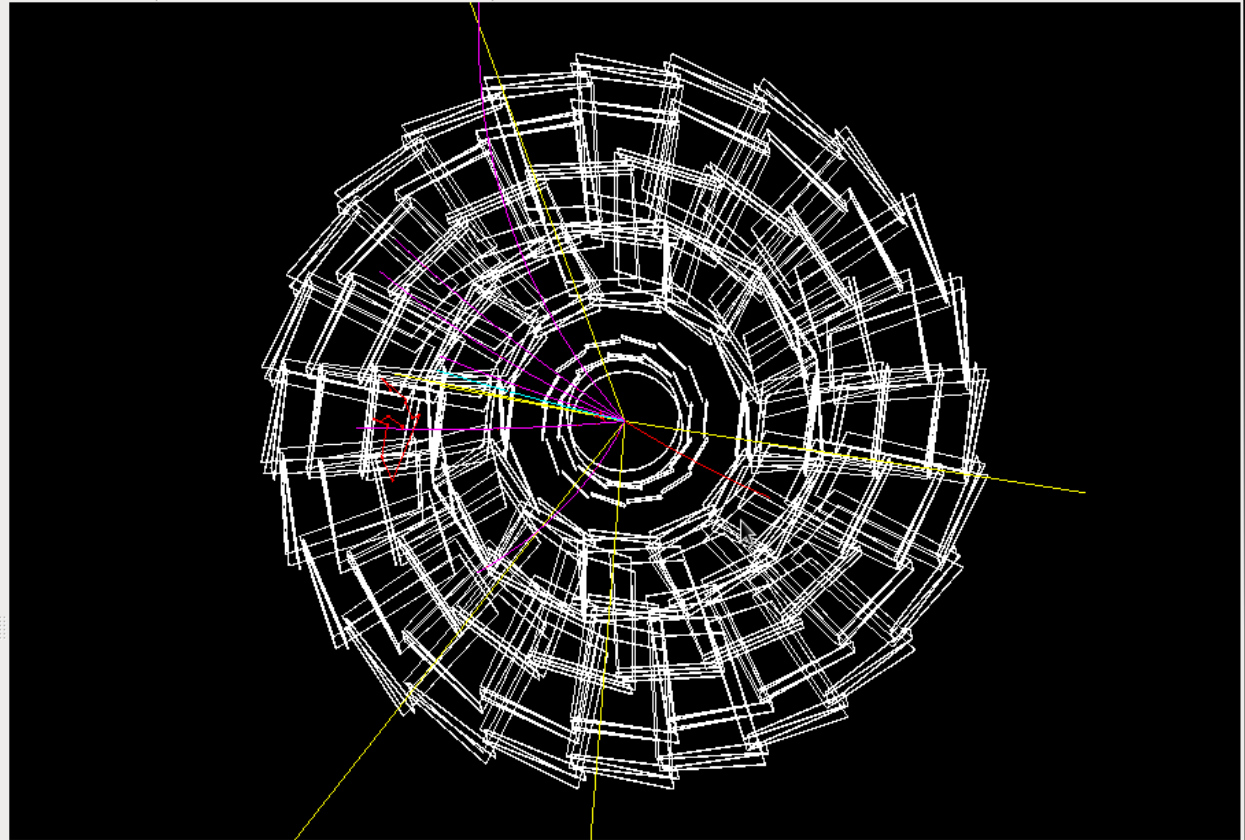
Search :

Command

- ▷ control
- ▷ units
- ▷ process
- ▷ geometry
- ▷ tracking
- ▷ event
- ▷ cuts
- ▼ run
 - ▷ particle
 - initialize
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 - setCut
 - setCutForAGivenParticle
 - getCutForAGivenParticle
 - setCutForRegion
- ▷ random
- ▷ particle

Choose a command in the command tree

Useful tips x viewer-0 (OpenGLImmediateQt) x



Output

Threads: All

```

mean energy deposit in absorber=0 +- 0 MeV
mean number of steps in absorber (charged) =0 +- 0
mean number of steps in absorber (neutral) =0 +- 0
mean number of charged secondaries = 0 +- 0
mean number of neutral secondaries = 0 +- 0
mean number of e-s =0 and e+s =0
(number) transmission coeff=0 reflection coeff=0
/vis/viewer/update

```

WARNING: 1 event has been kept for refreshing and/or reviewing.
"/vis/reviewKeptEvents" to review them.

Session :

1 JET EVENT- REMNANT

PHP ($Q^2 < 1$)

DIS ($Q^2 > 1$)

CHARM($Q^2 > 10$)

1 JET EVENT- REMNANT

PHP ($Q^2 < 1$)

DIS ($Q^2 > 1$)

CHARM($Q^2 > 10$)