# Results from Sirène

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NIKHEF

WP2 meeting @ Paris

# Samples

* 100GeV (30 min or so running)

  * 3000 events with 142010 hits

  * 1000 events with 47311 hits – 45979 from Cherenkov ; 1332 from EM showers

* 500GeV (2hrs running 3000 events)

  * 3000 events with 1396659 hits

  * 1000 events with 466198 hits – 435697 from Cherenkov ; 30501 from EM showers
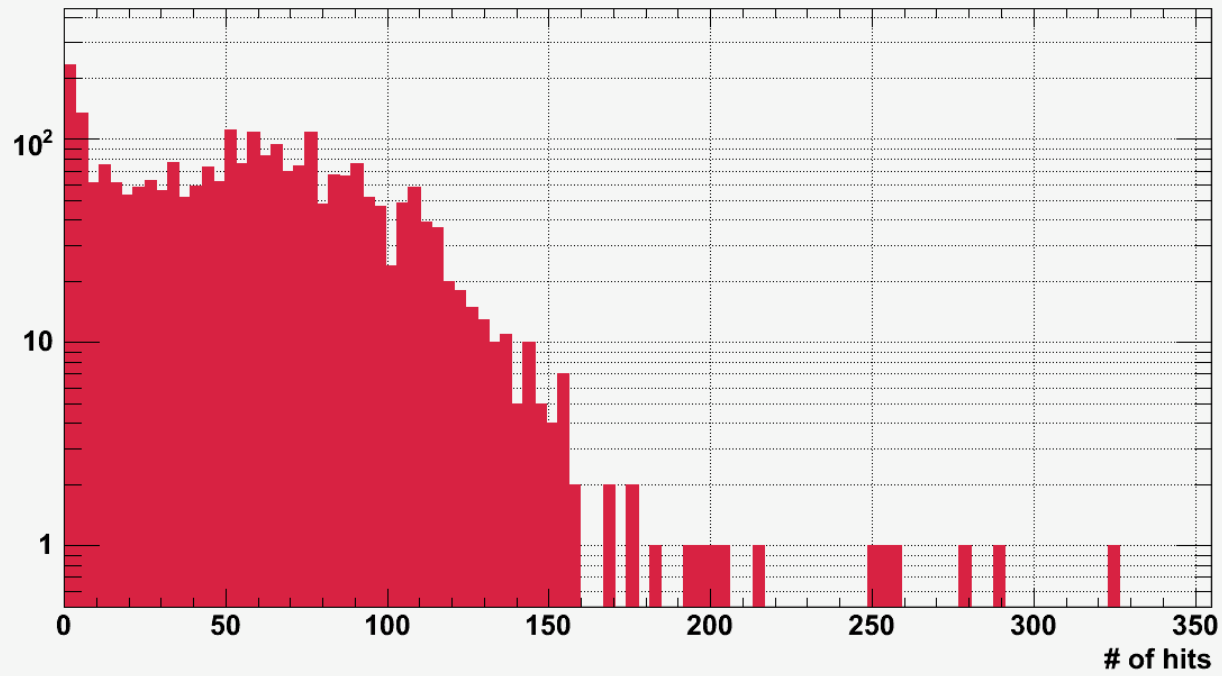
* 10TeV (2evts/1min)

  * 3000 events with 3204253 hits

  * 1000 events with 1116156 hits – 456139 from Cherenkov ; 660017 from EM showers
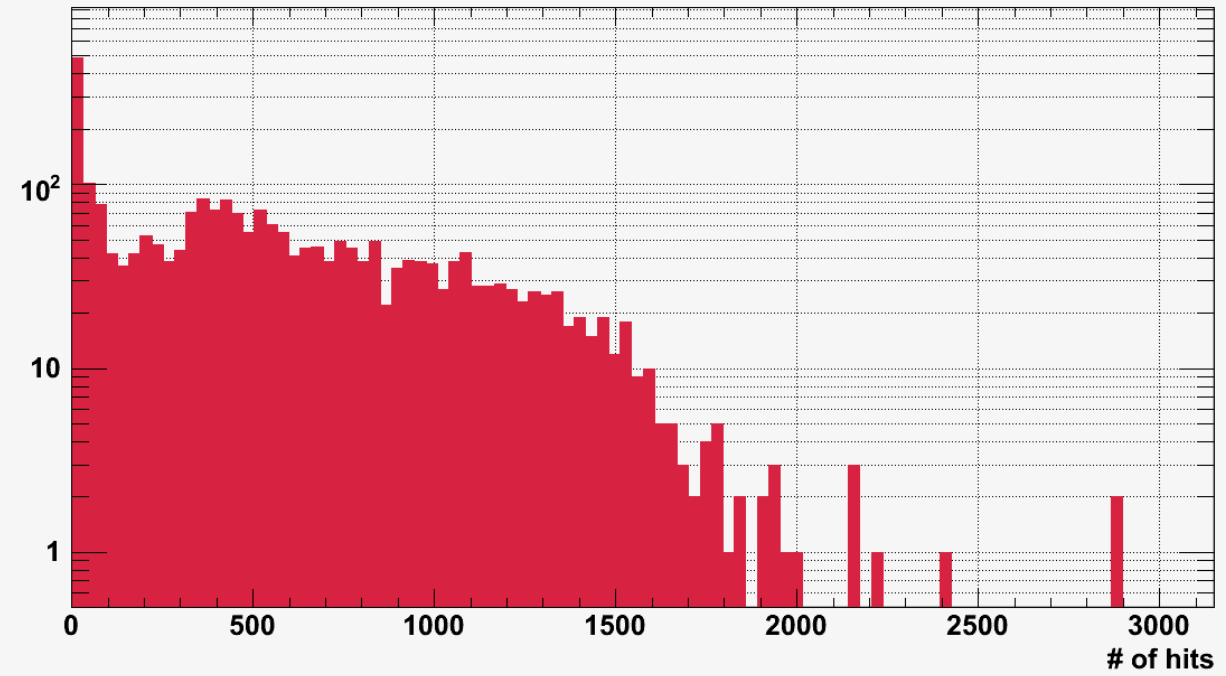
# Some Distributions

# Number of hits per events



100 GeV sample
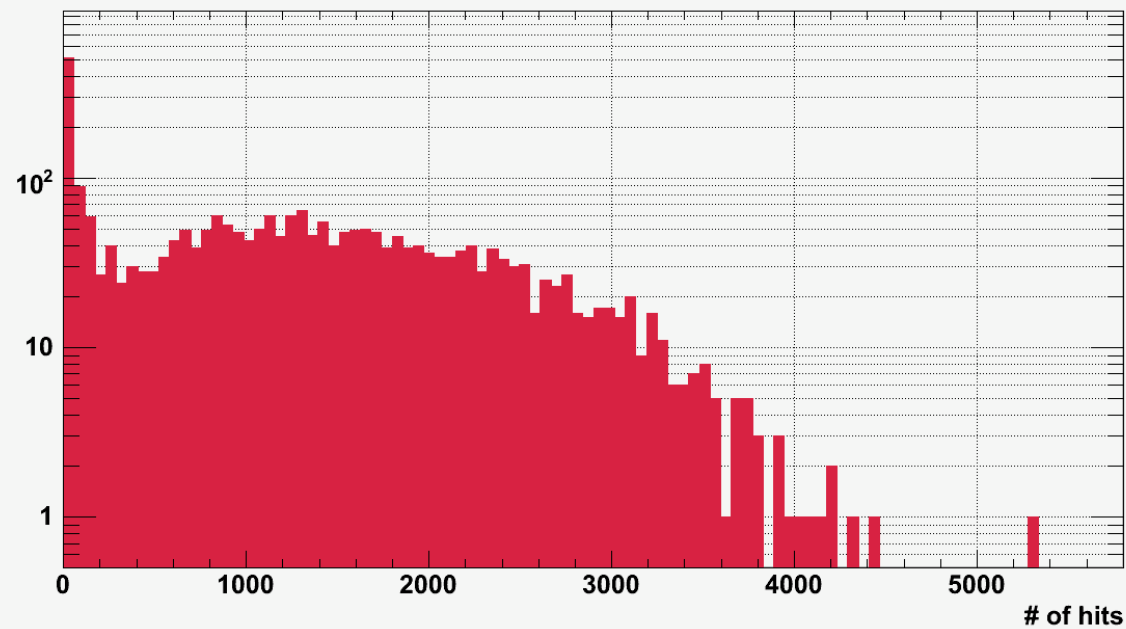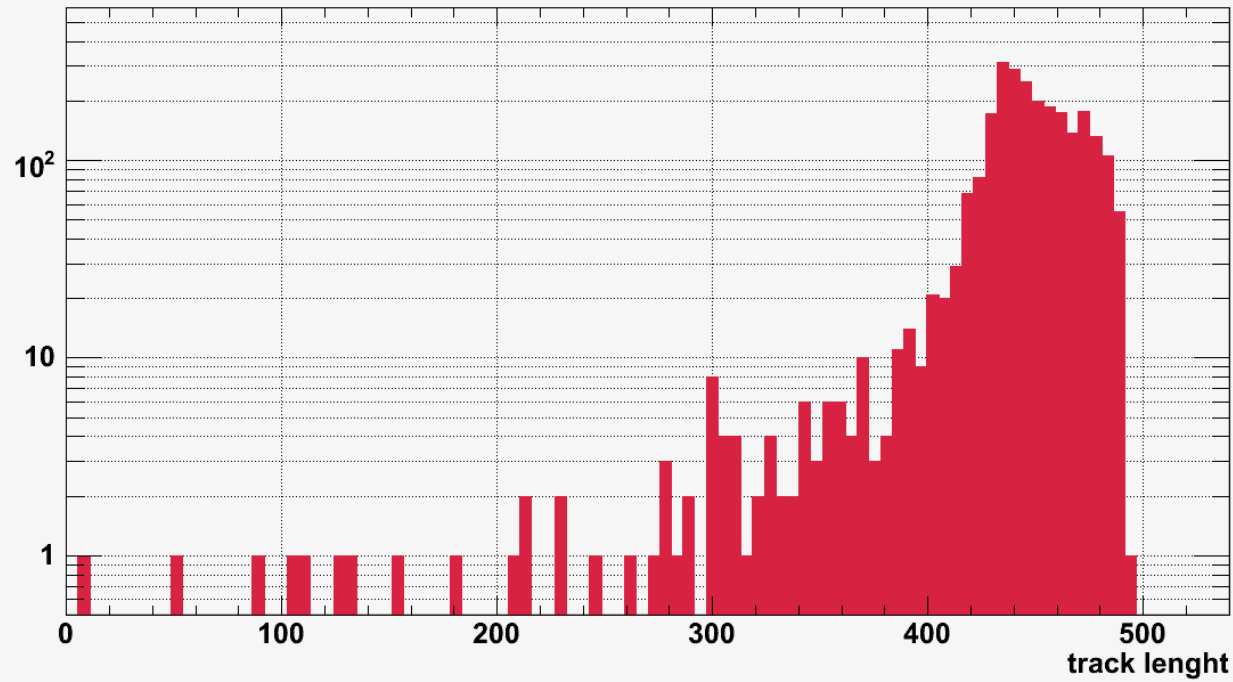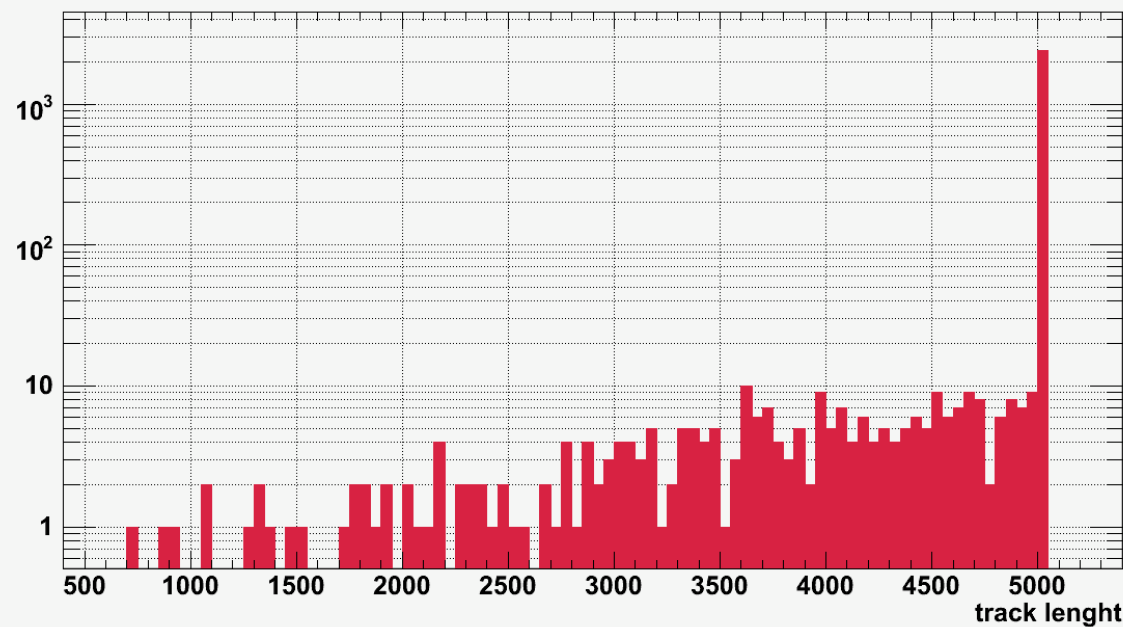


500 GeV sample



10 TeV sample

# Track Lenght
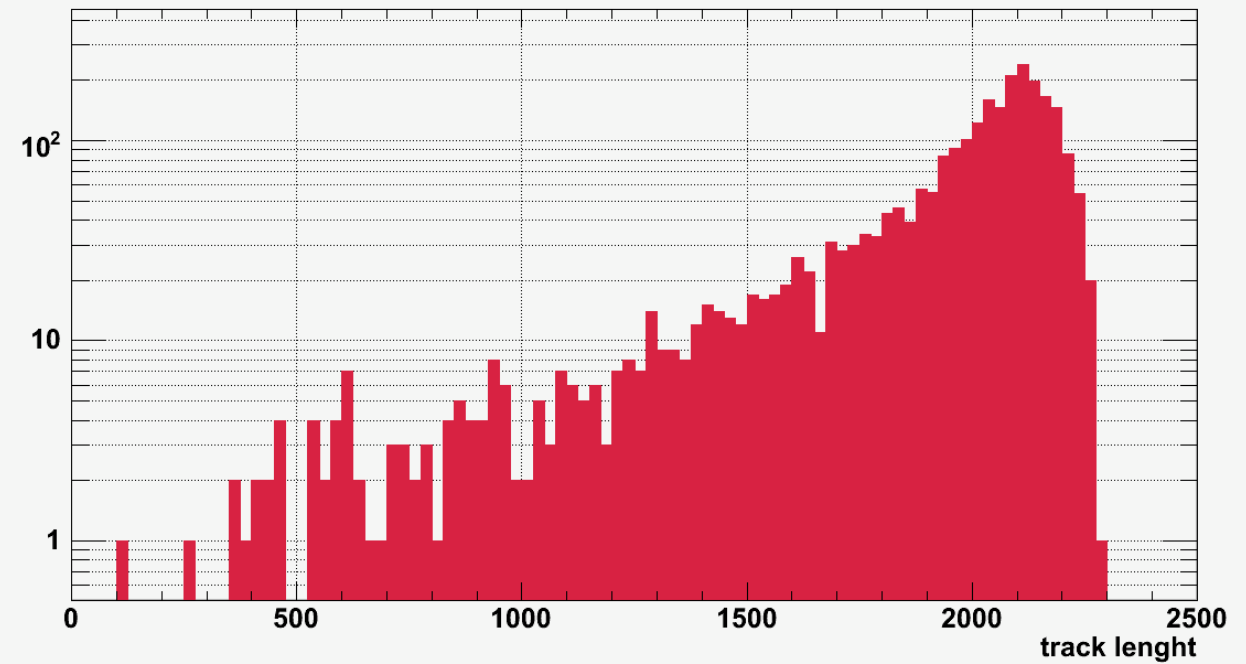


100 GeV sample
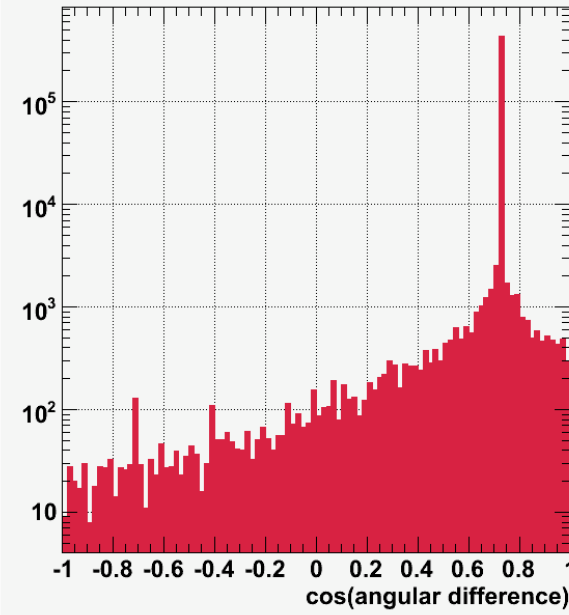
500 GeV sample

10 TeV sample

# Track X Hit Information
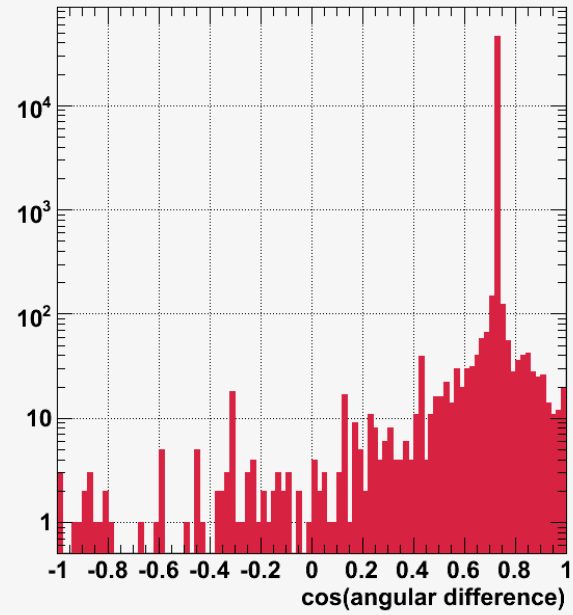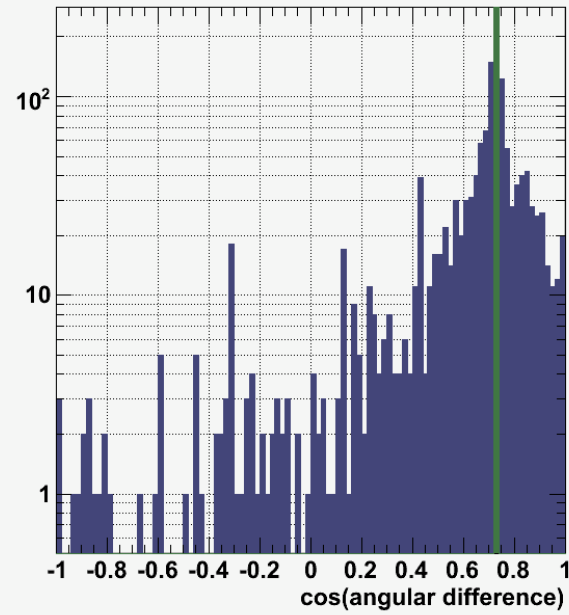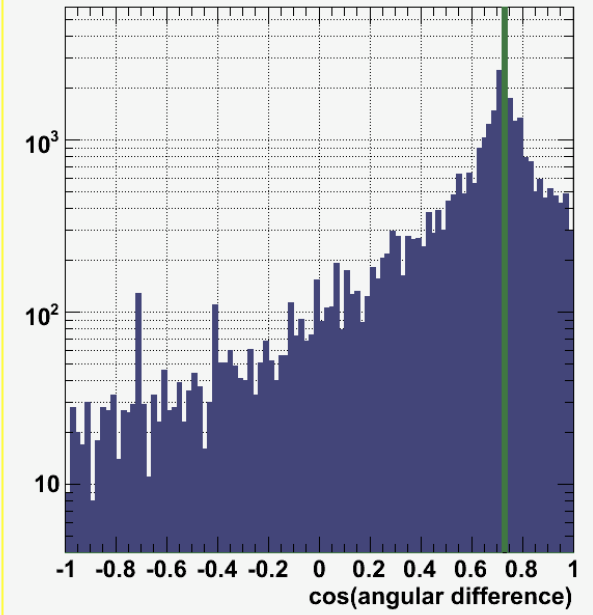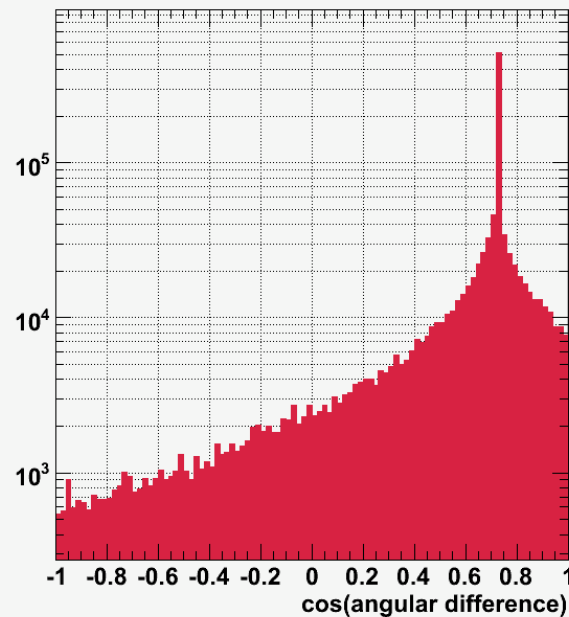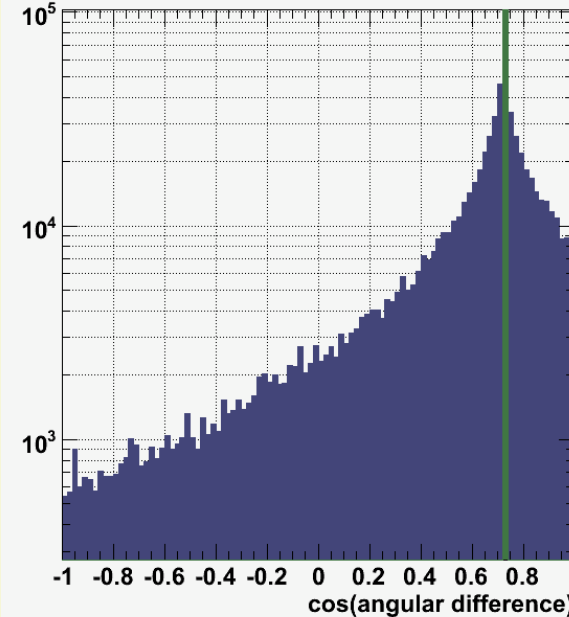


100 GeV sample

500 GeV sample
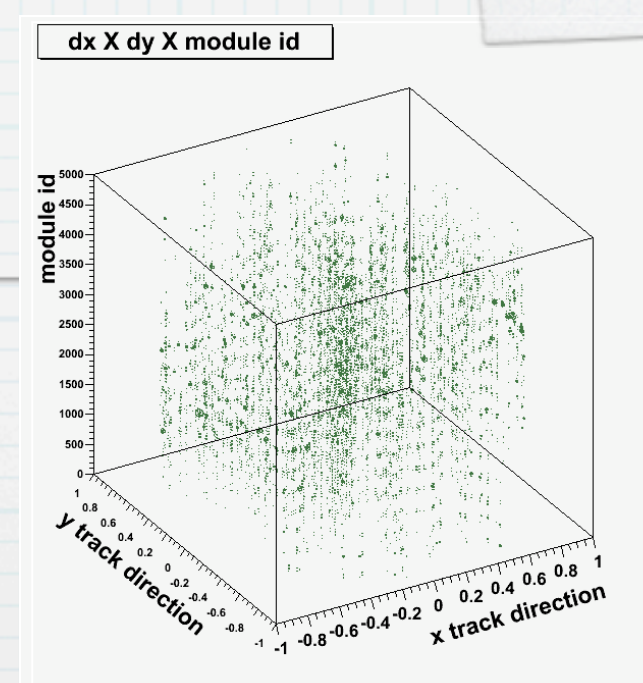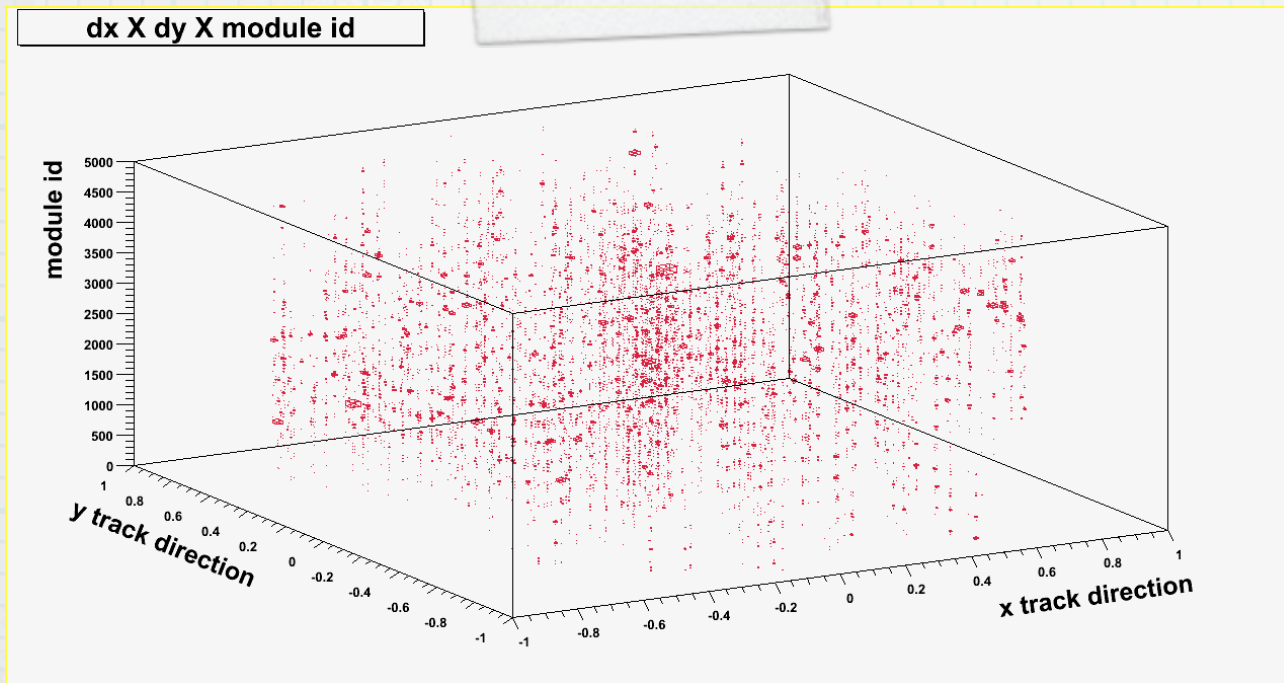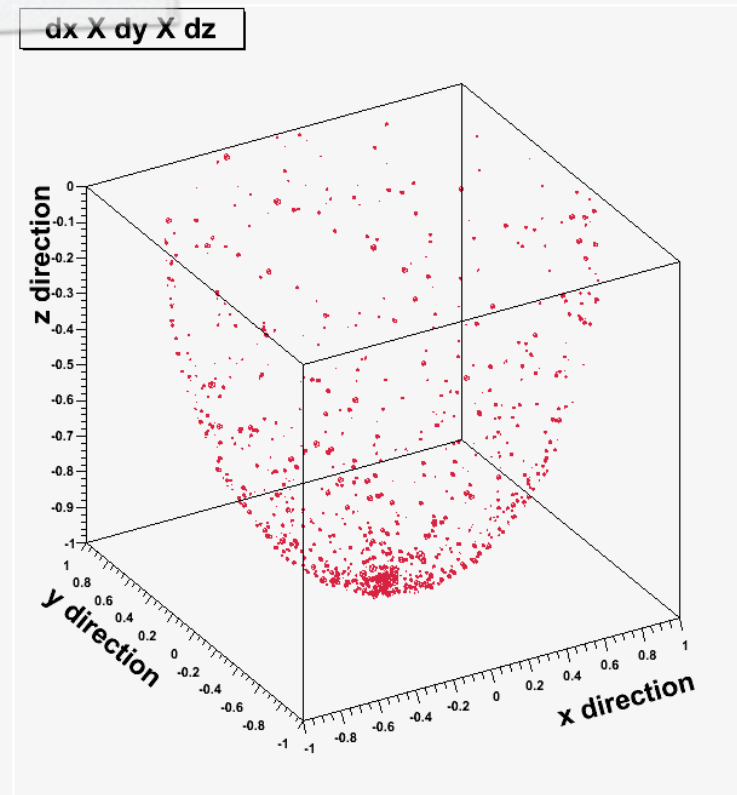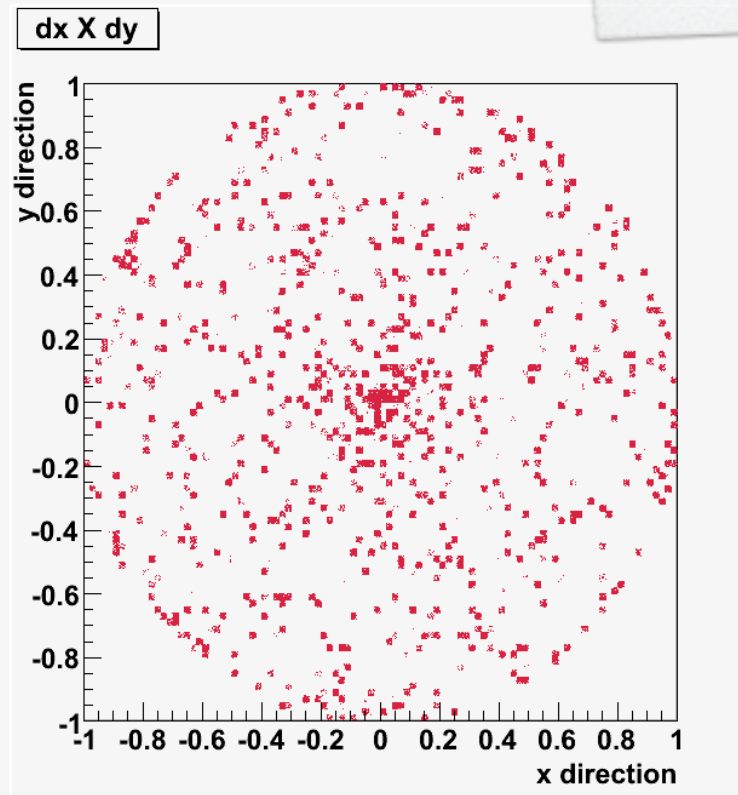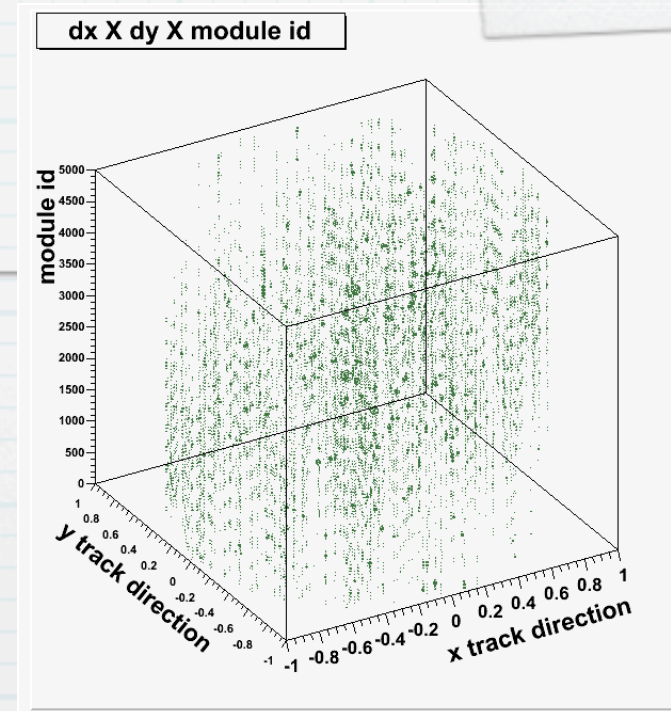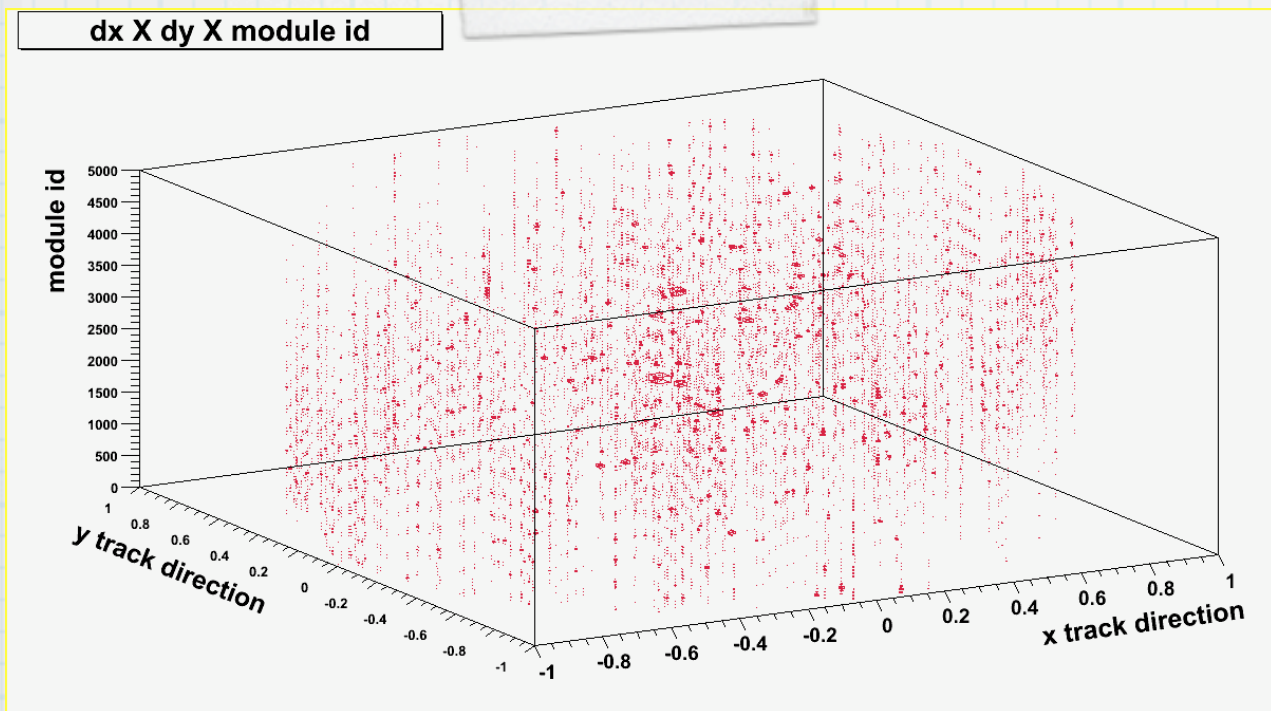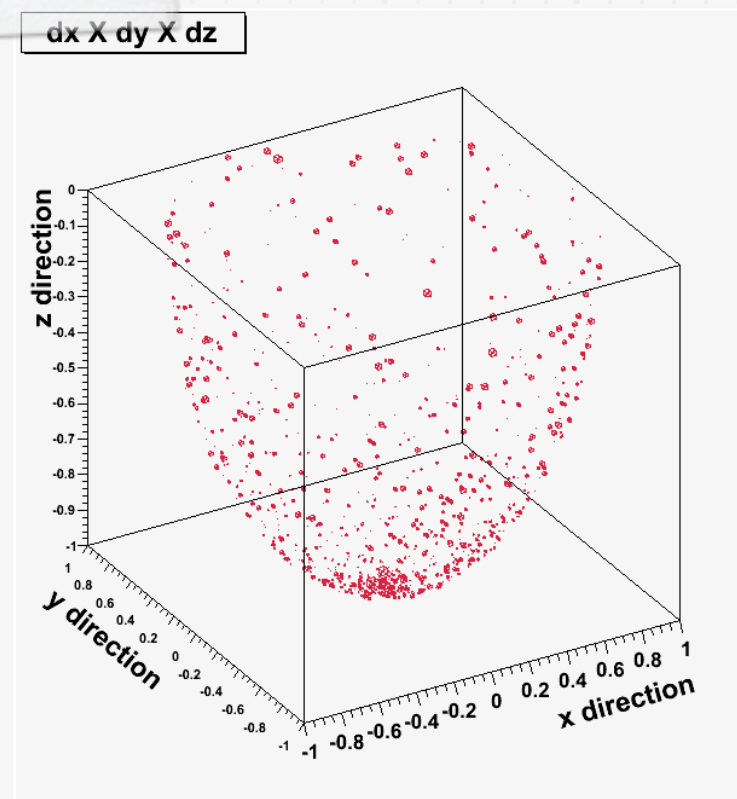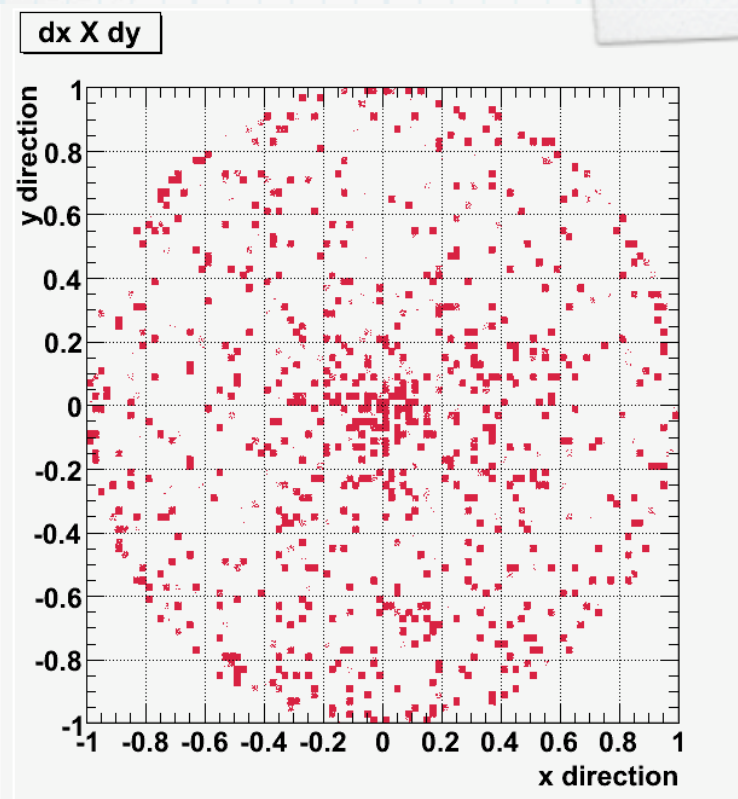
10 TeV sample

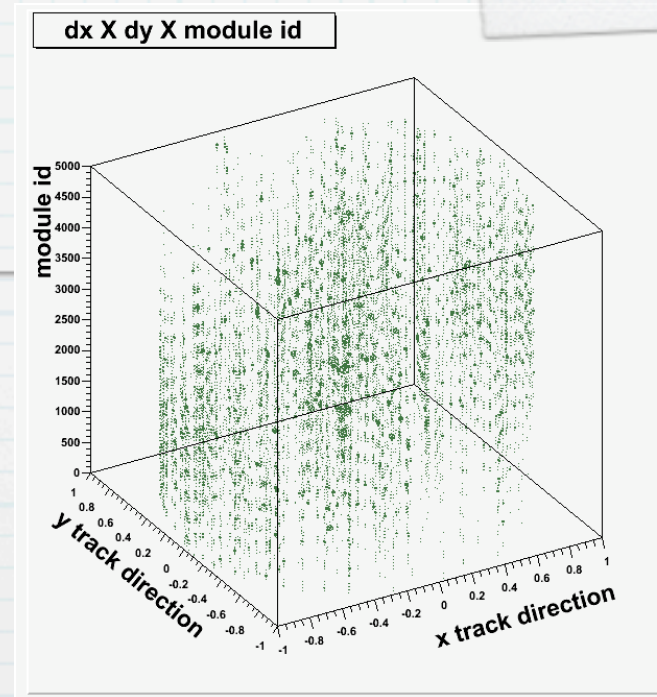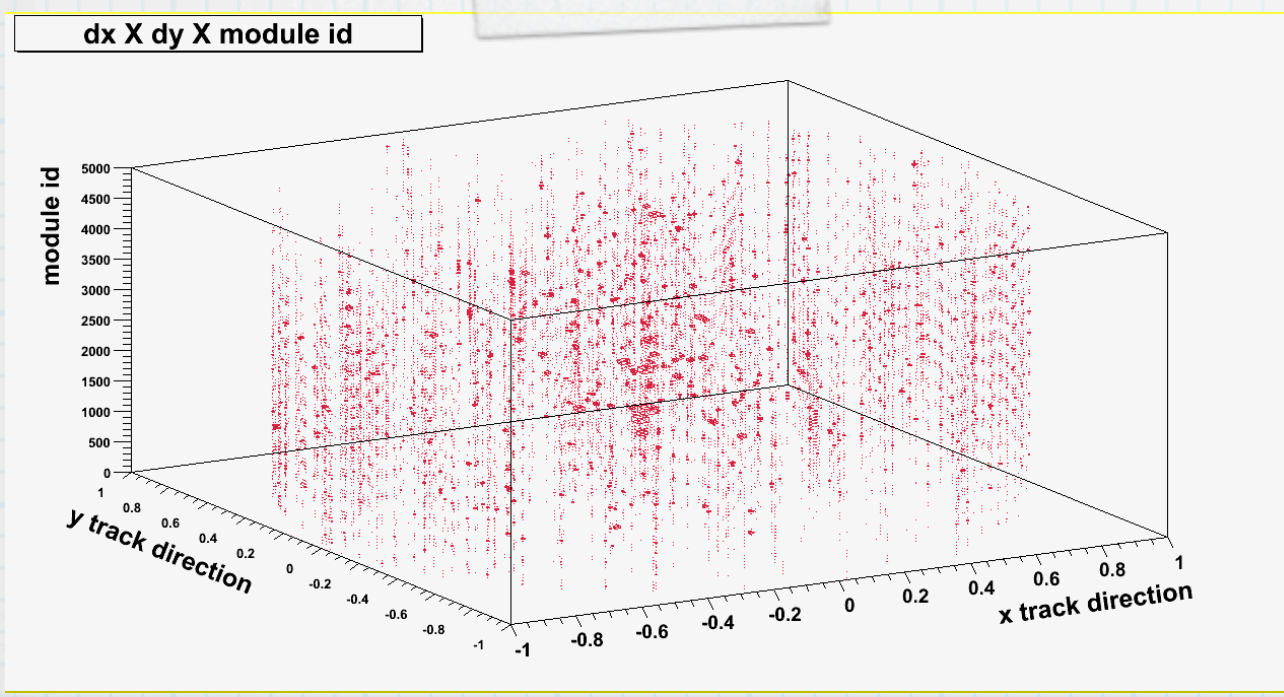# Track and Position
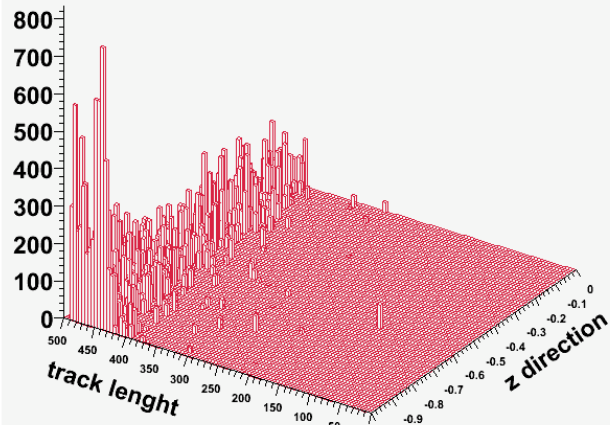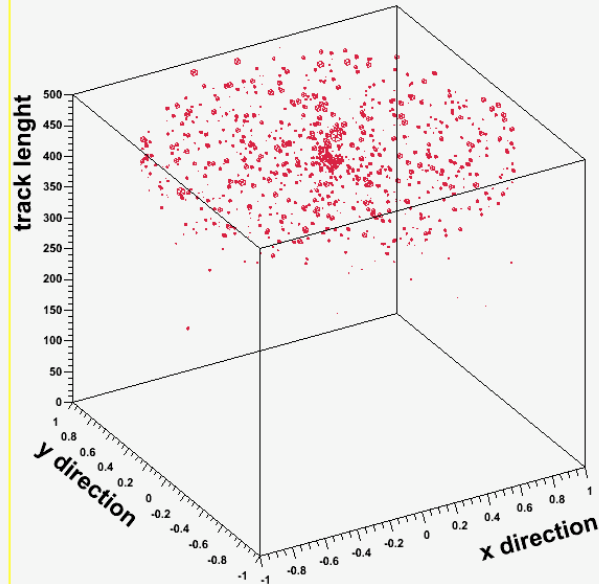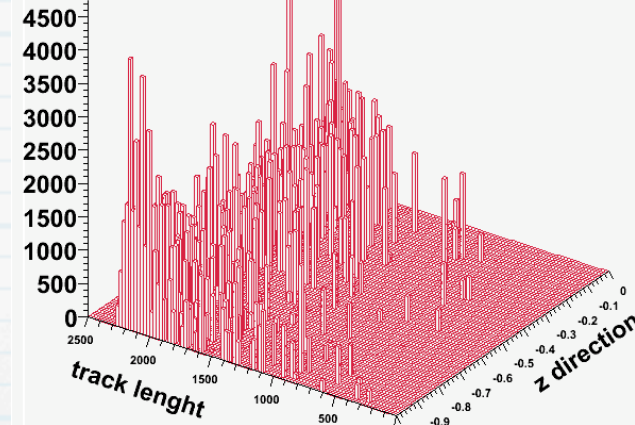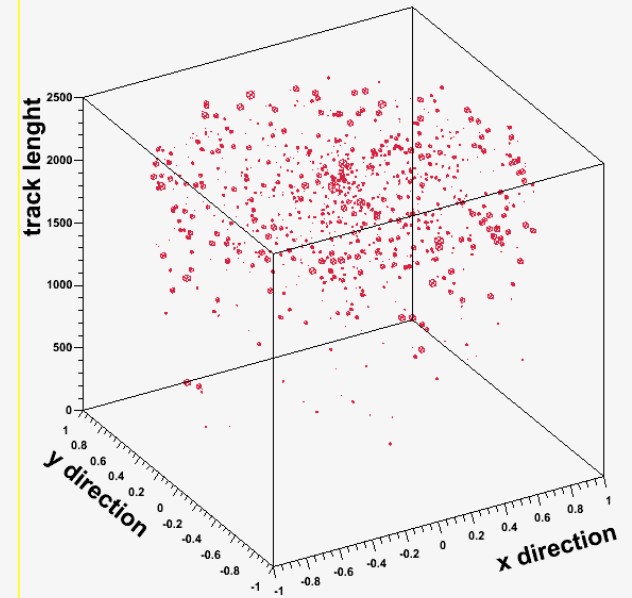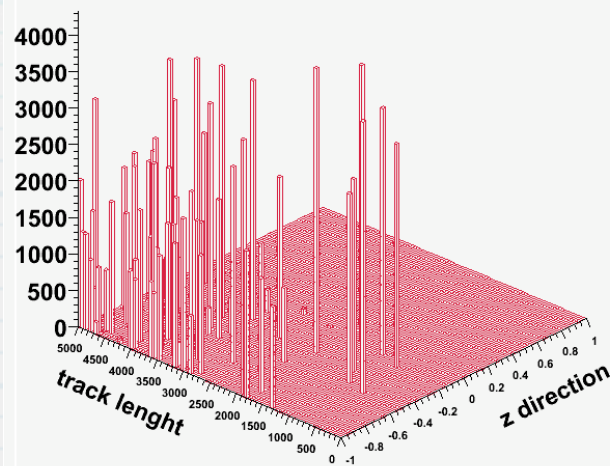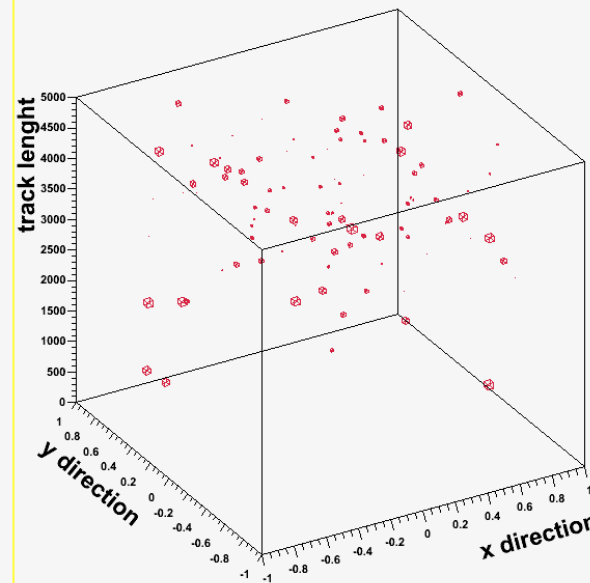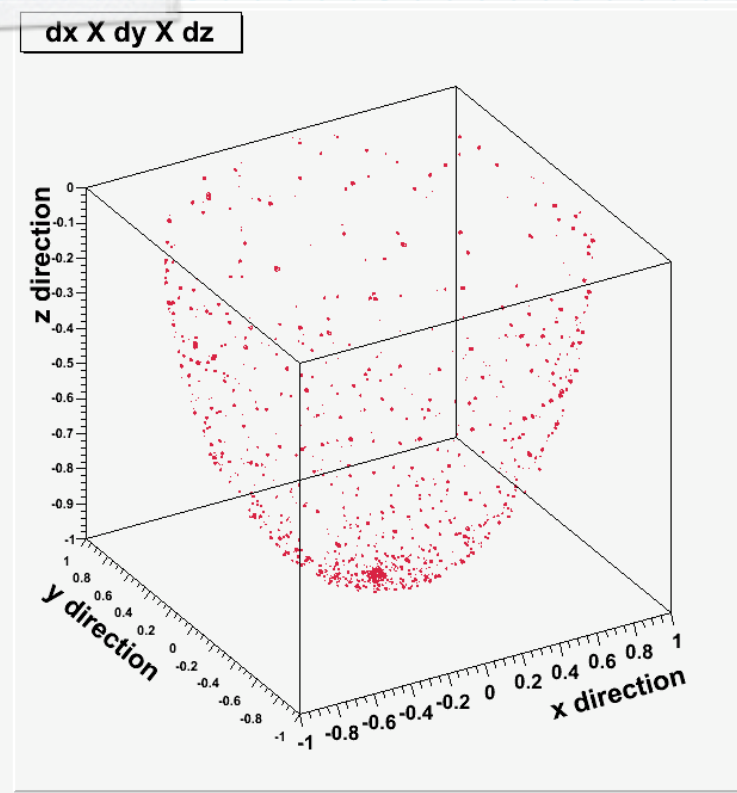


100 GeV sample

500 GeV sample
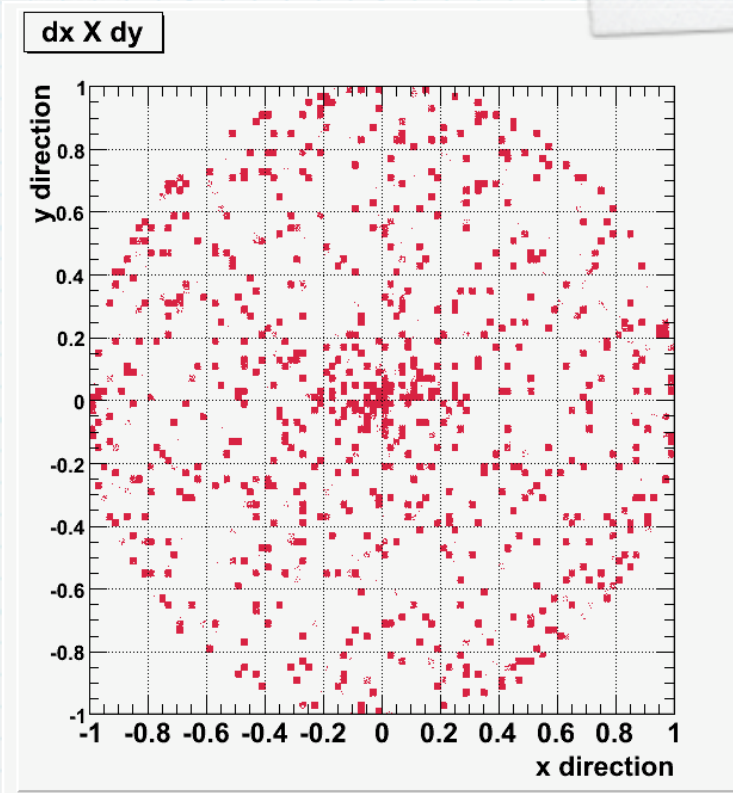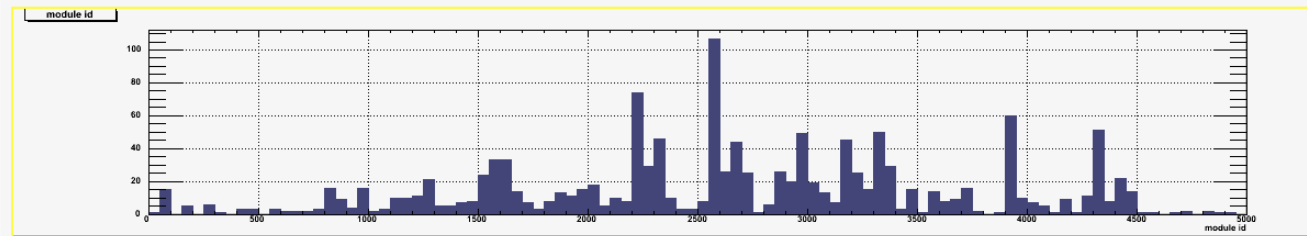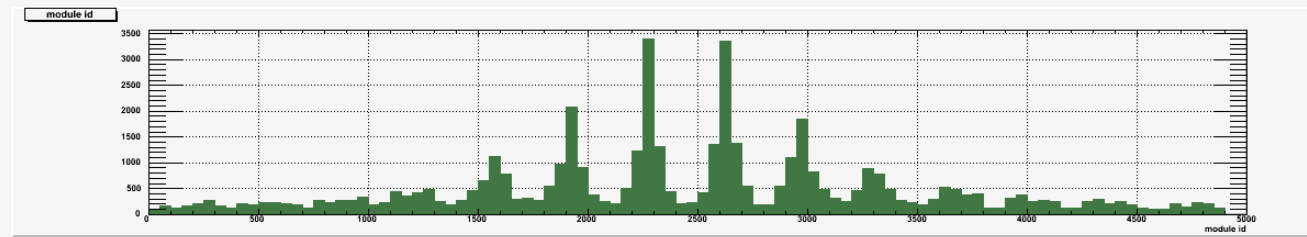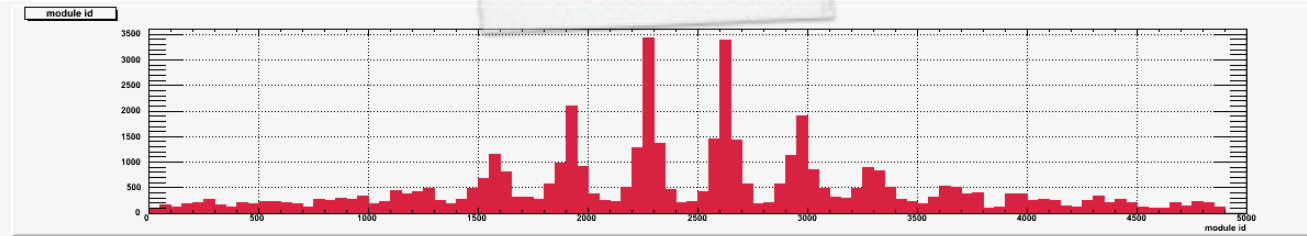
10 TeV sample

# Modules and Position - 100 GeV
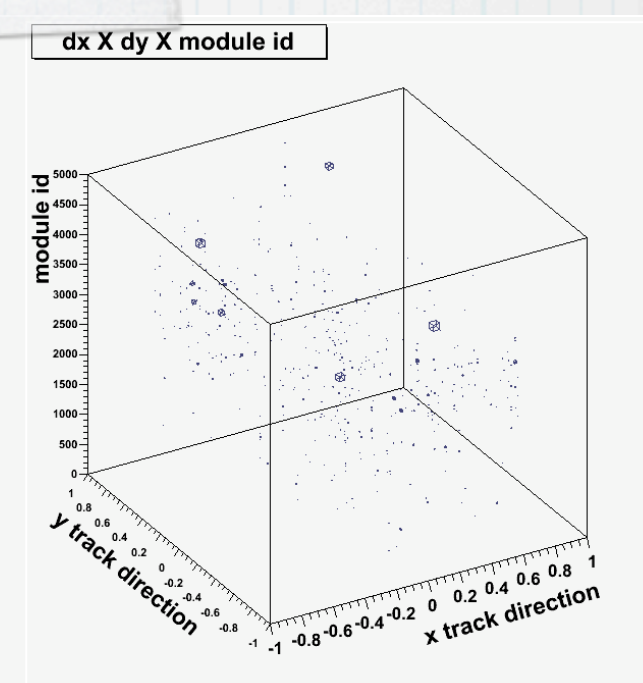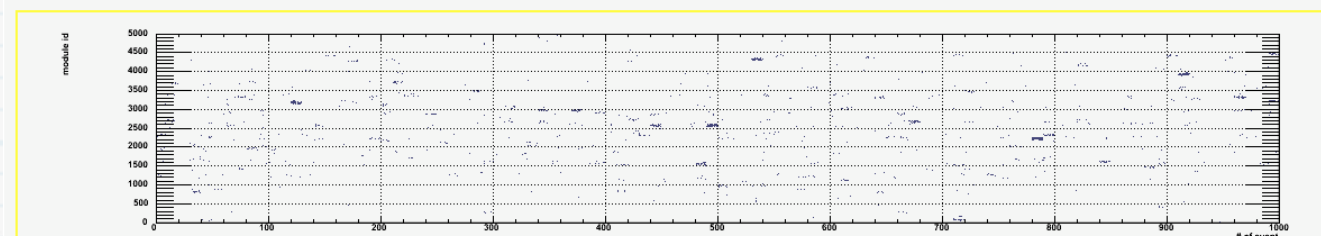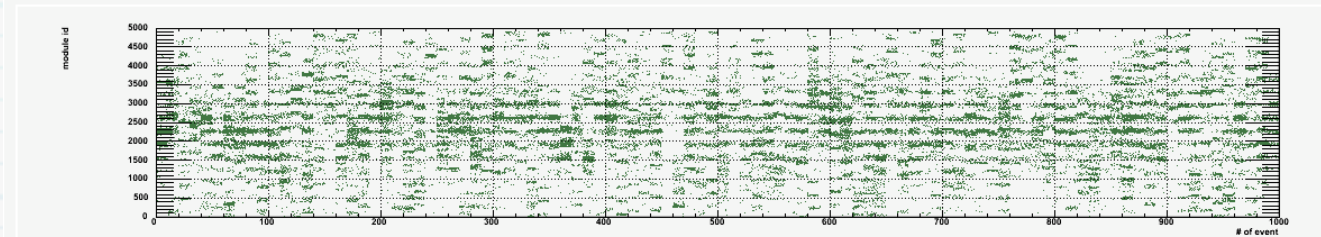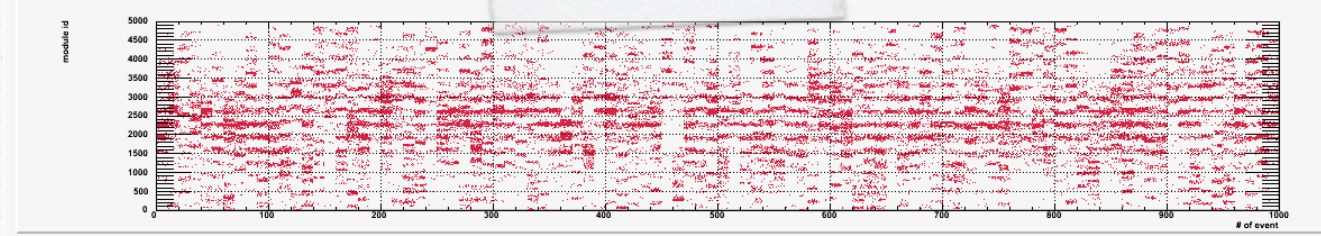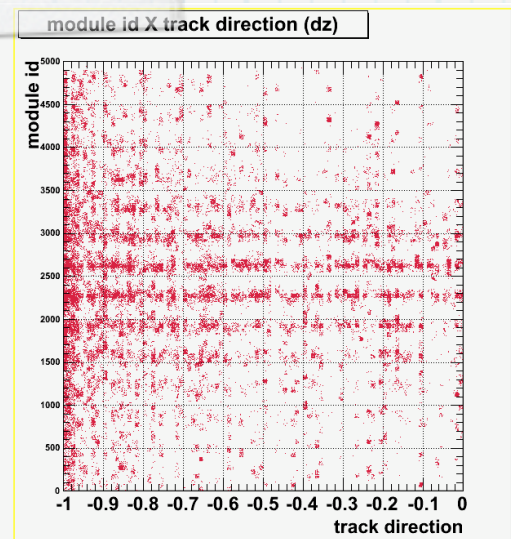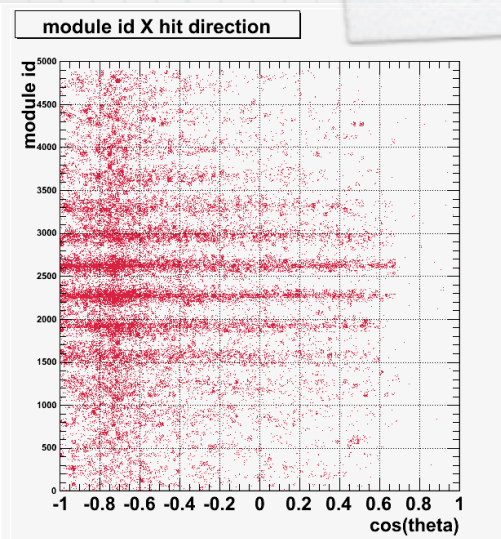
# Modules and Position - 500 GeV
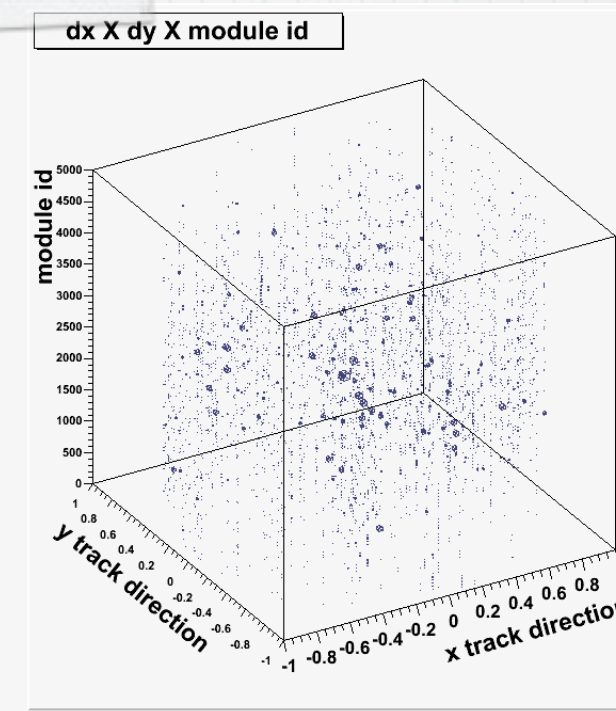
# Modules and Position - 10 TeV
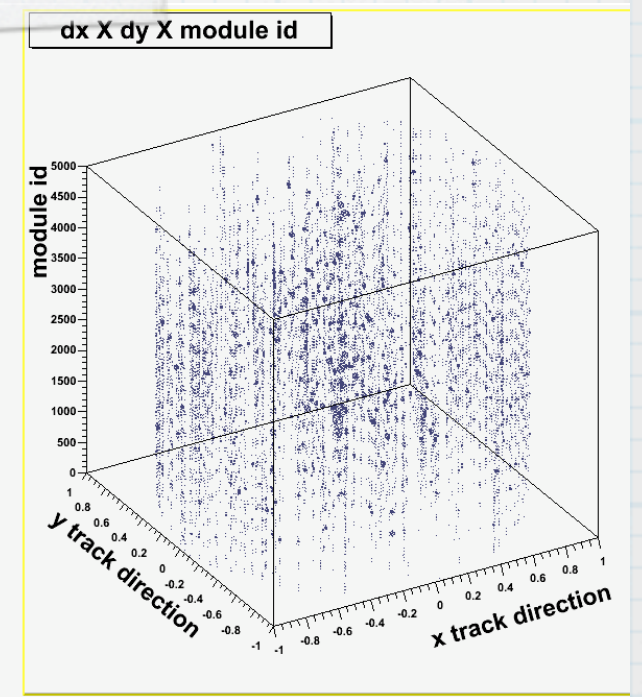
# Modules and Events - 100 GeV



module id

module in X # of events

module id X direction
(hit & track)

cherenkov hits

EM shower hits

# Modules and Events - 500 GeV

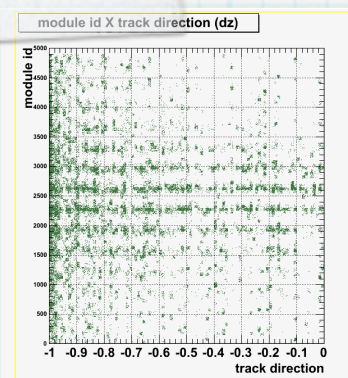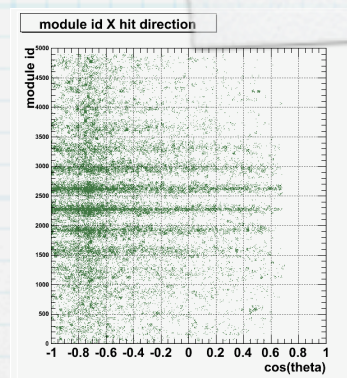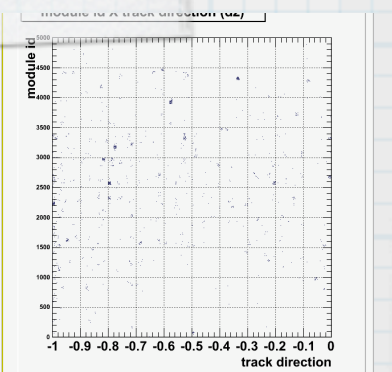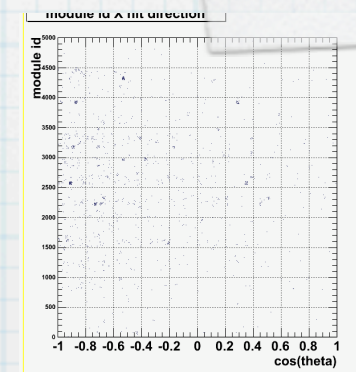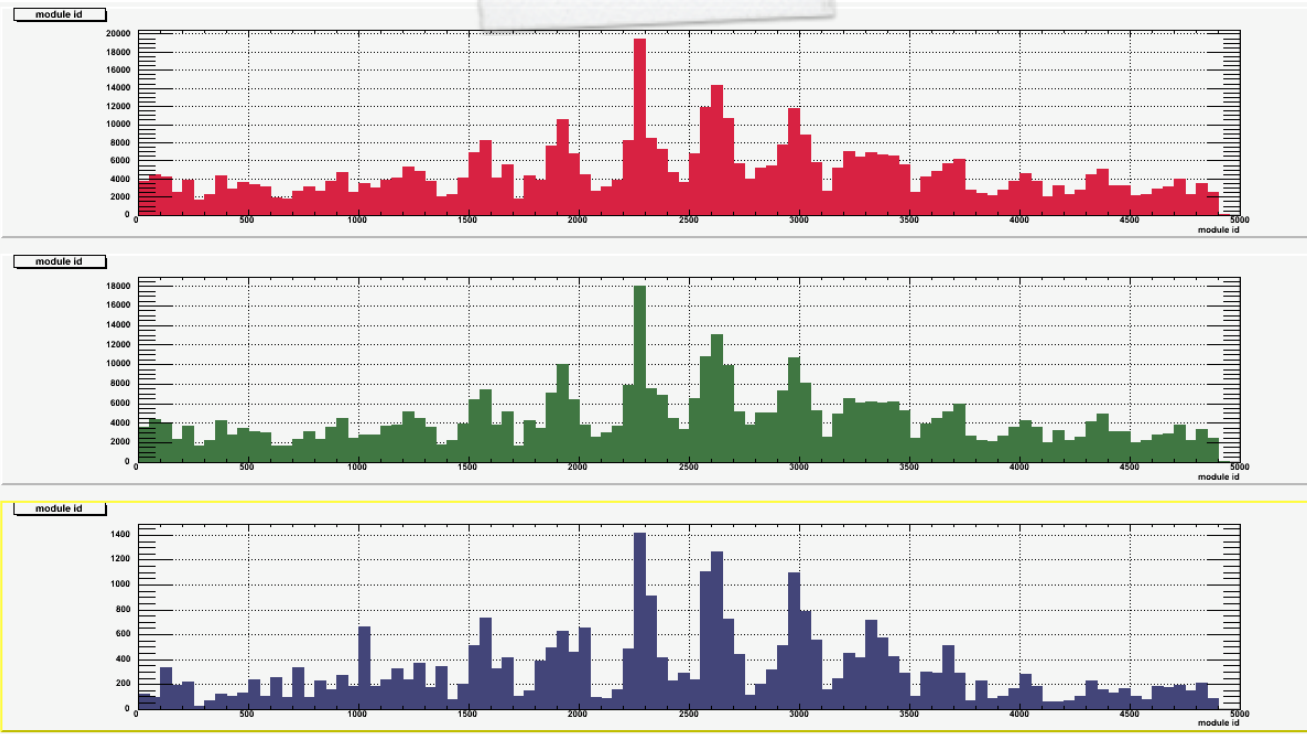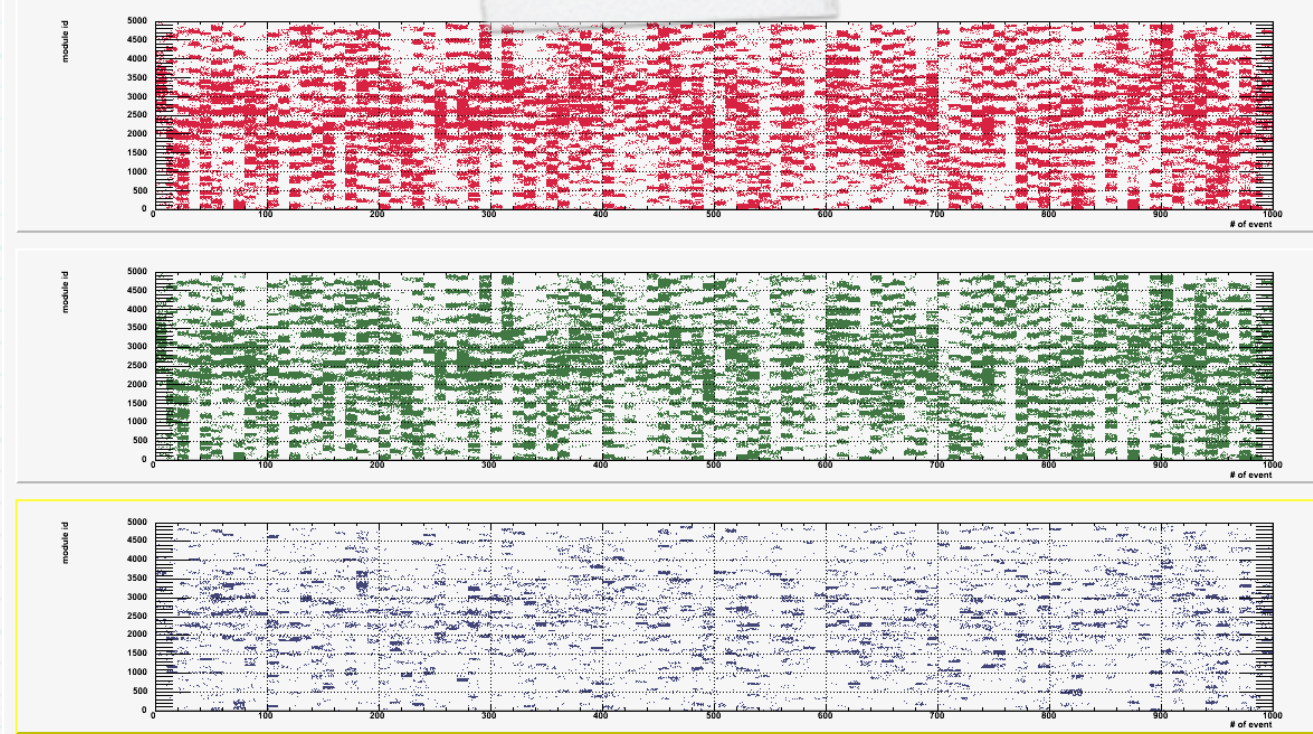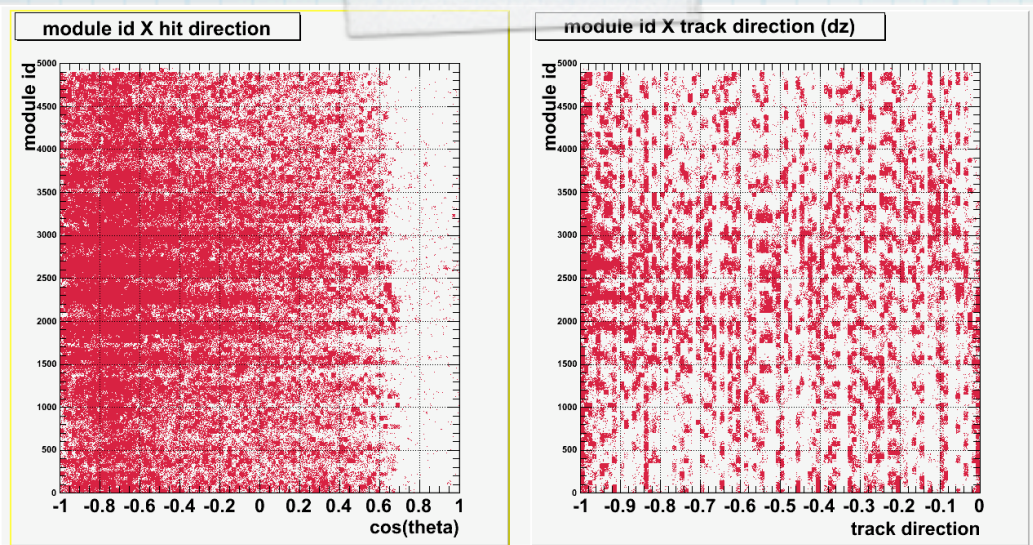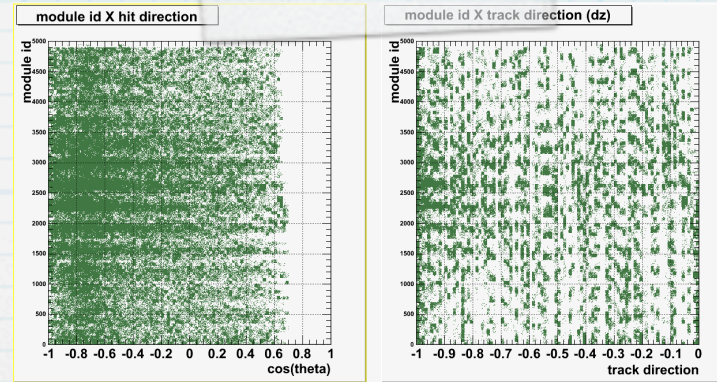

module id

module in X # of events

module id X direction
(hit & track)

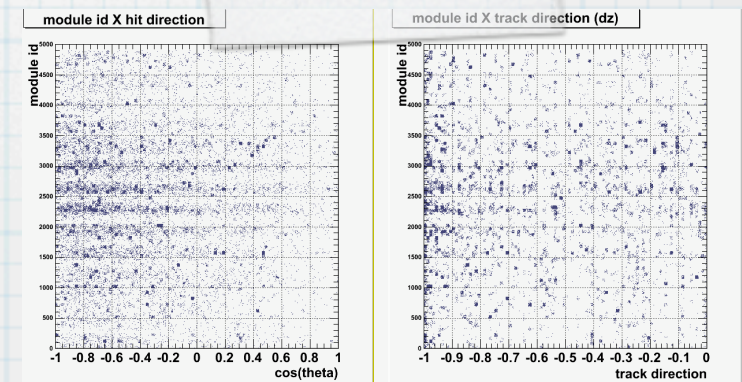cherenkov hits

EM shower hits

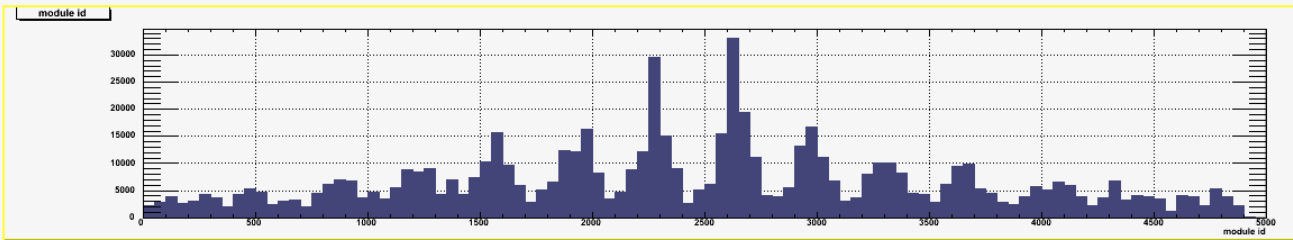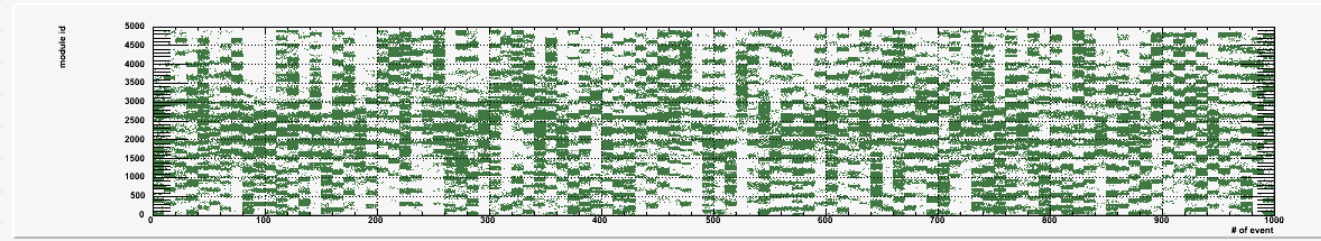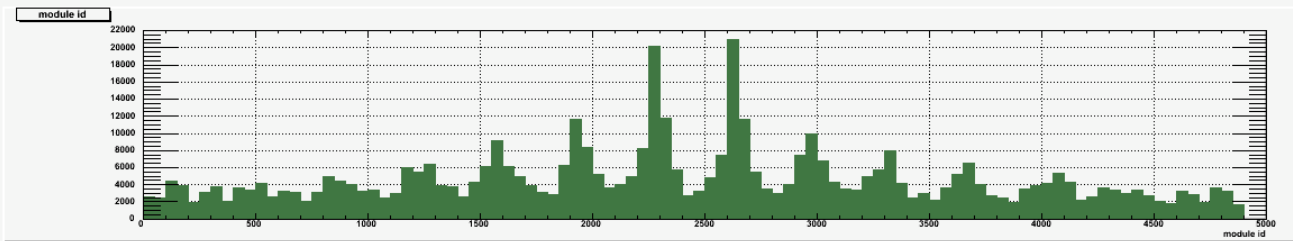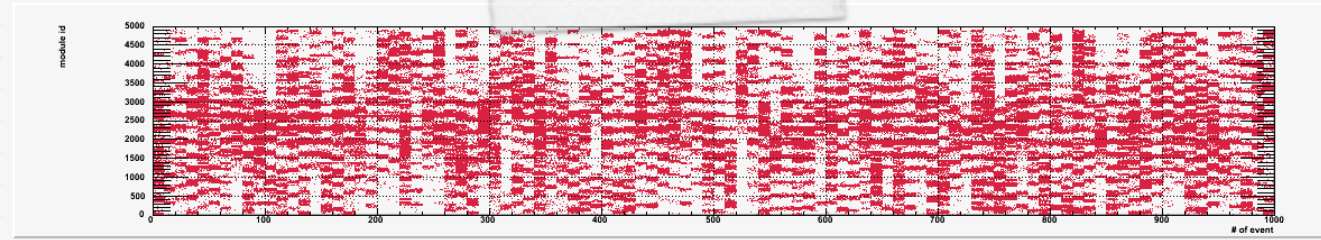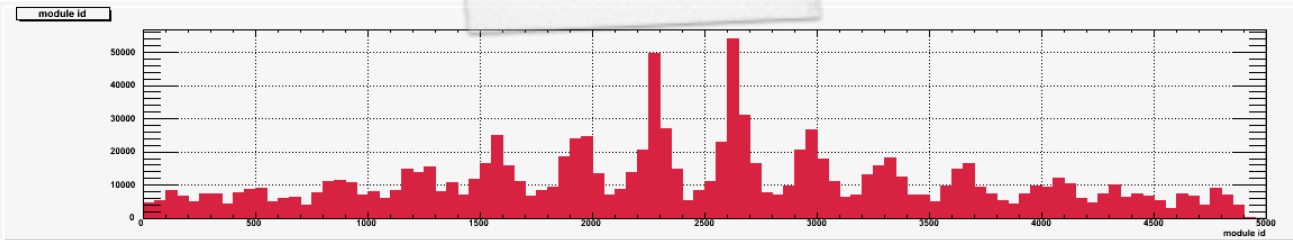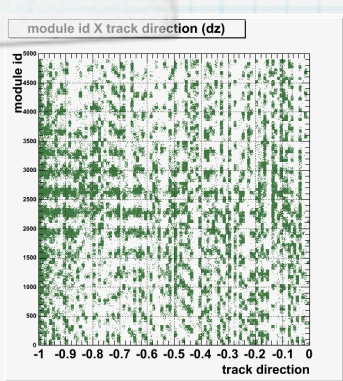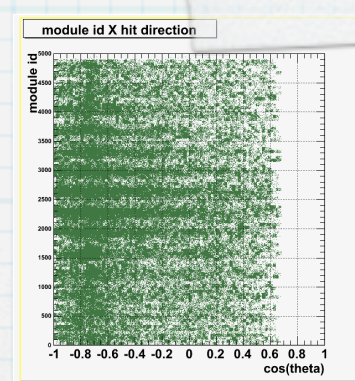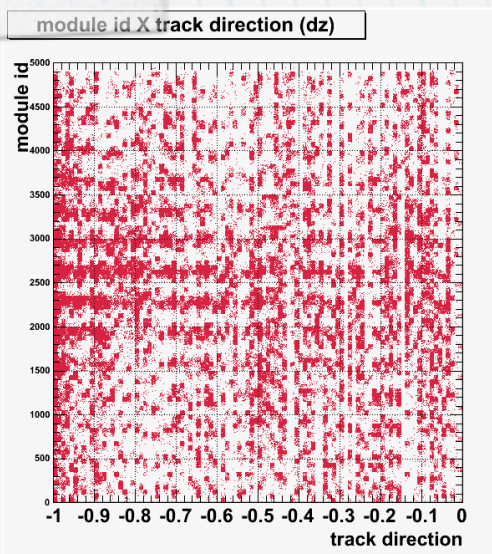# Modules and Events - 10 TeV
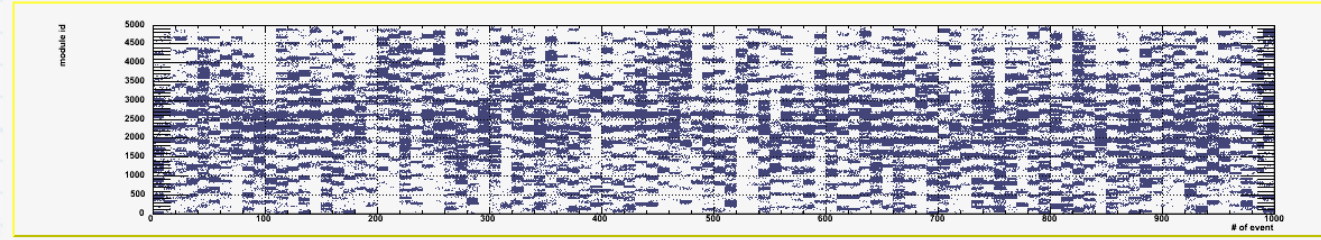


module id

module in X # of events
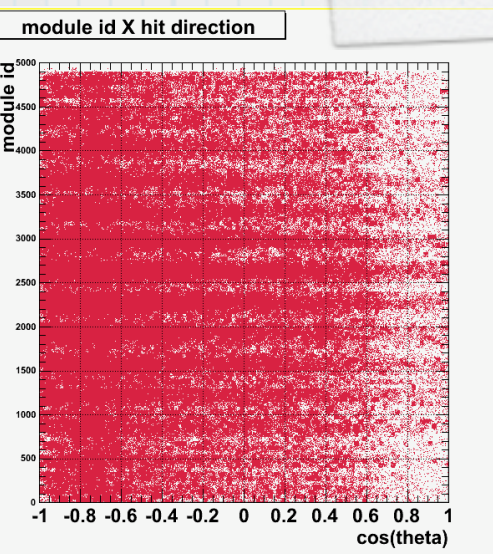
module id X direction
(hit & track)

cherenkov hits
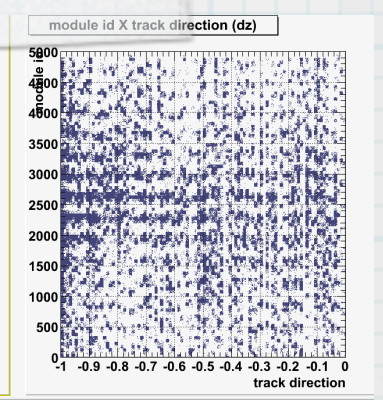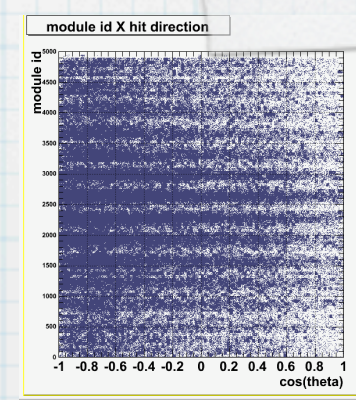
EM shower hits

# In Progress

* Implementation of Sirene (framework)

* Debugging of the SireneExtend

* SireneExtend as part of the framework