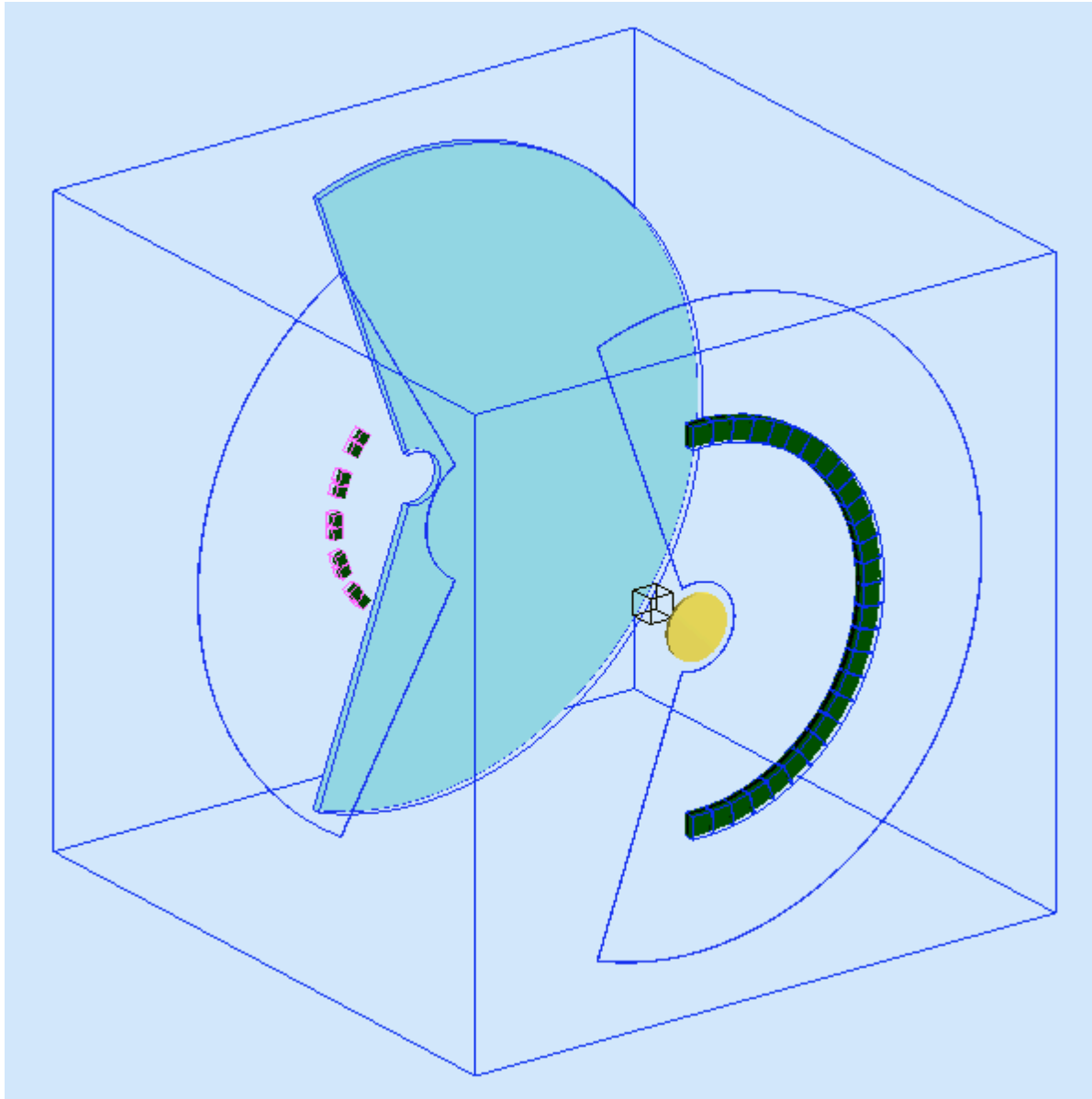


RICH PROTOTYPE

Contalbrigo Marco & Luciano Pappalardo
& Luca Barion
INFN Ferrara

Rich Meeting, 30 March 2012

Edmund, $n=1.04$



Edmund, $n=1.04$

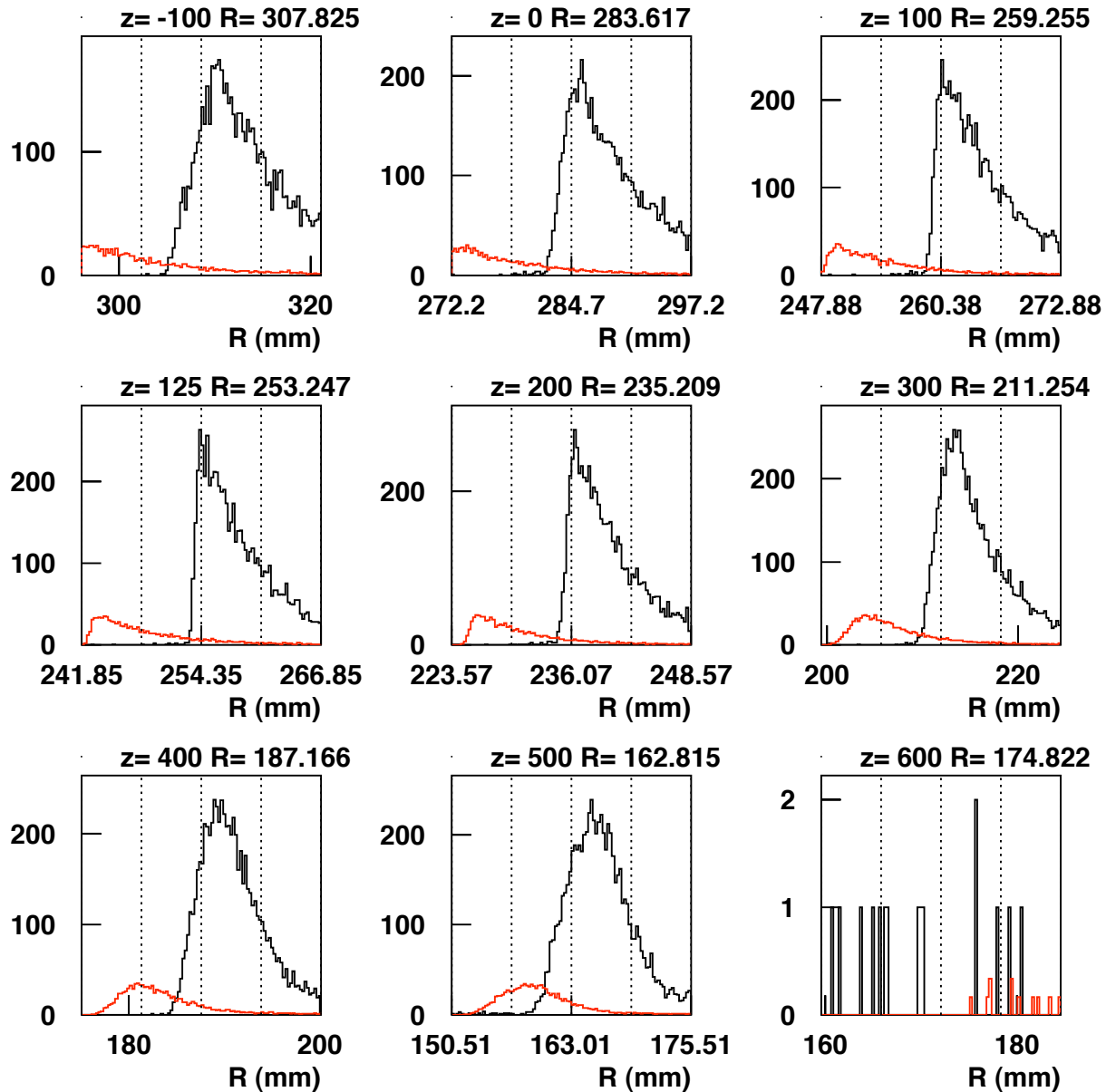
H9800

Each plot has a H9800 width and lines indicate the pixels

The z position at the entrance window and the radius of the H9800 arc is indicated on the top of each plot

The radius is the average of Pion and kaon radii

Best value $x=100-125$ mm



Edmund, $n=1.05$

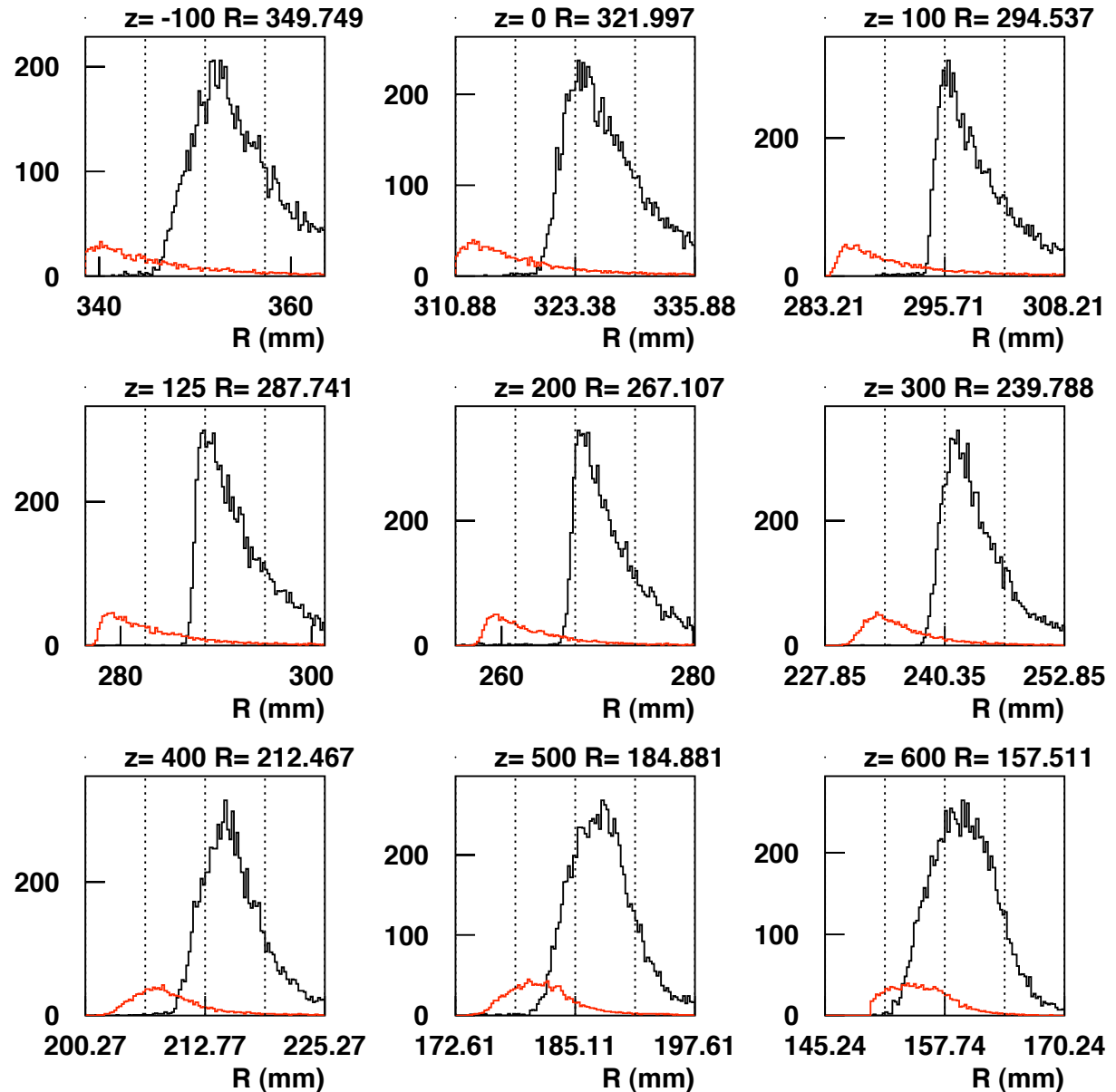
H9800

Each plot has a H9800 width and lines indicate the pixels

The z position at the entrance window and the radius of the H9800 arc is indicated on the top of each plot

The radius is the average of Pion and kaon radii

Best value $x=100-125$ mm



Edmund, $n=1.06$

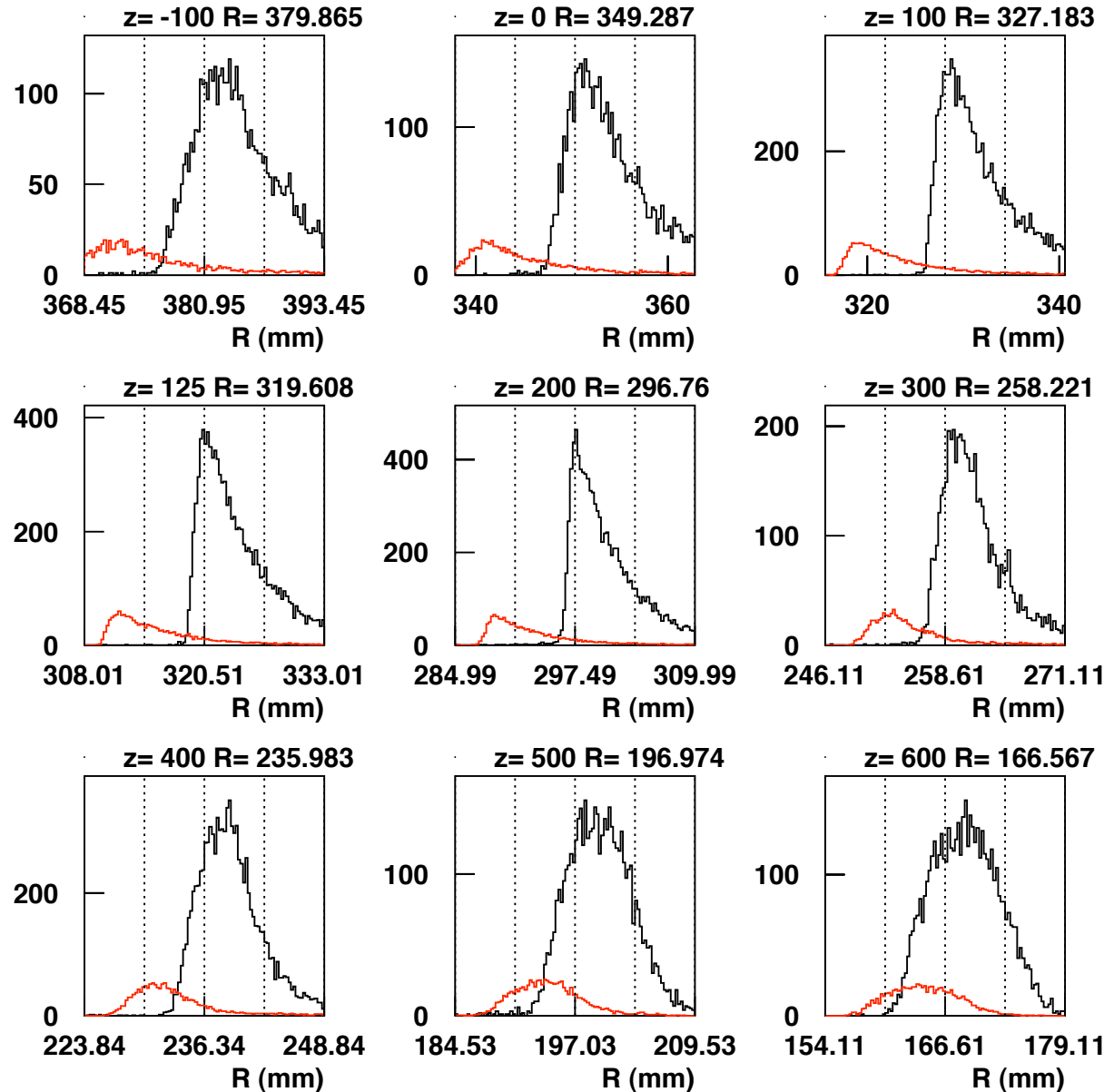
H9800

Each plot has a H9800 width and lines indicate the pixels

The z position at the entrance window and the radius of the H9800 arc is indicated on the top of each plot

The radius is the average of Pion and kaon radii

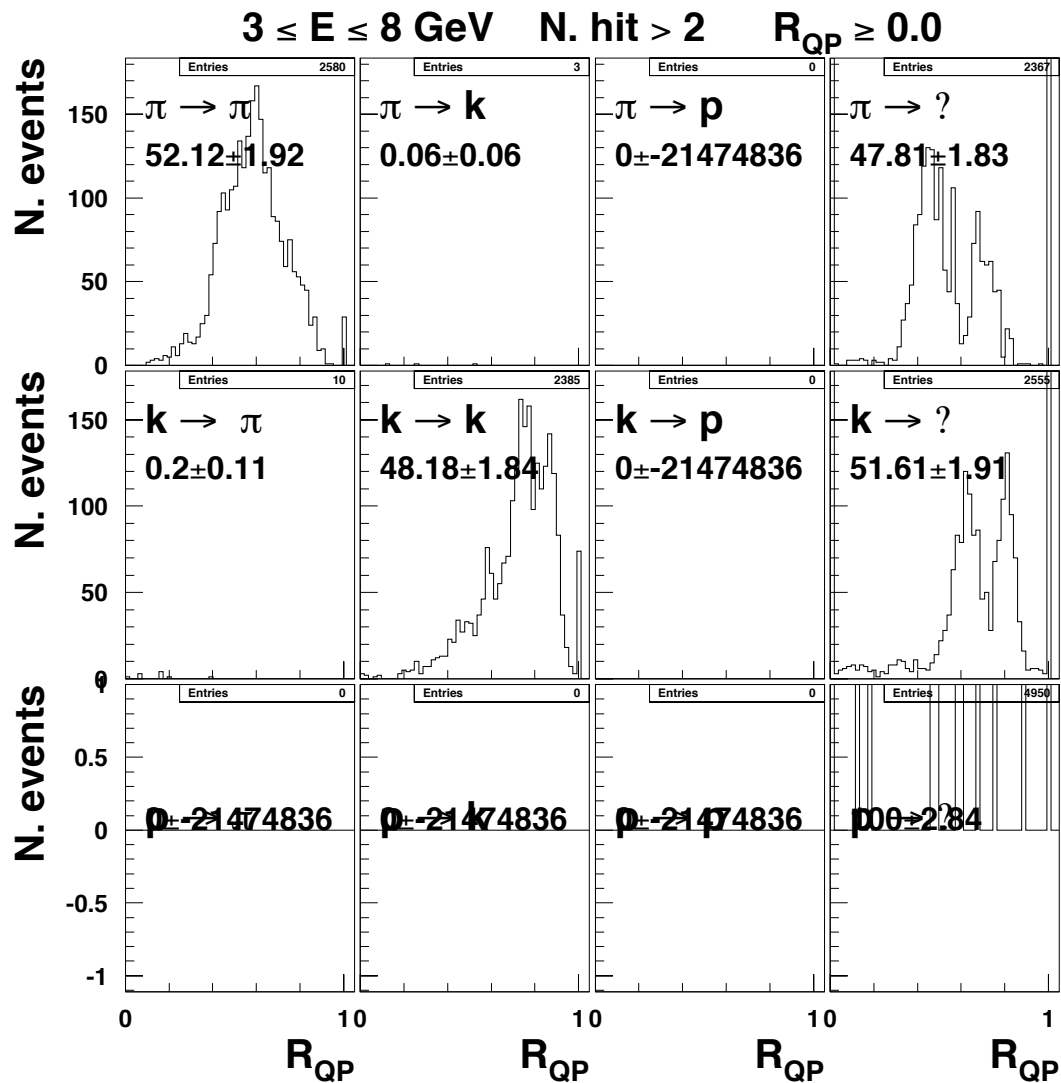
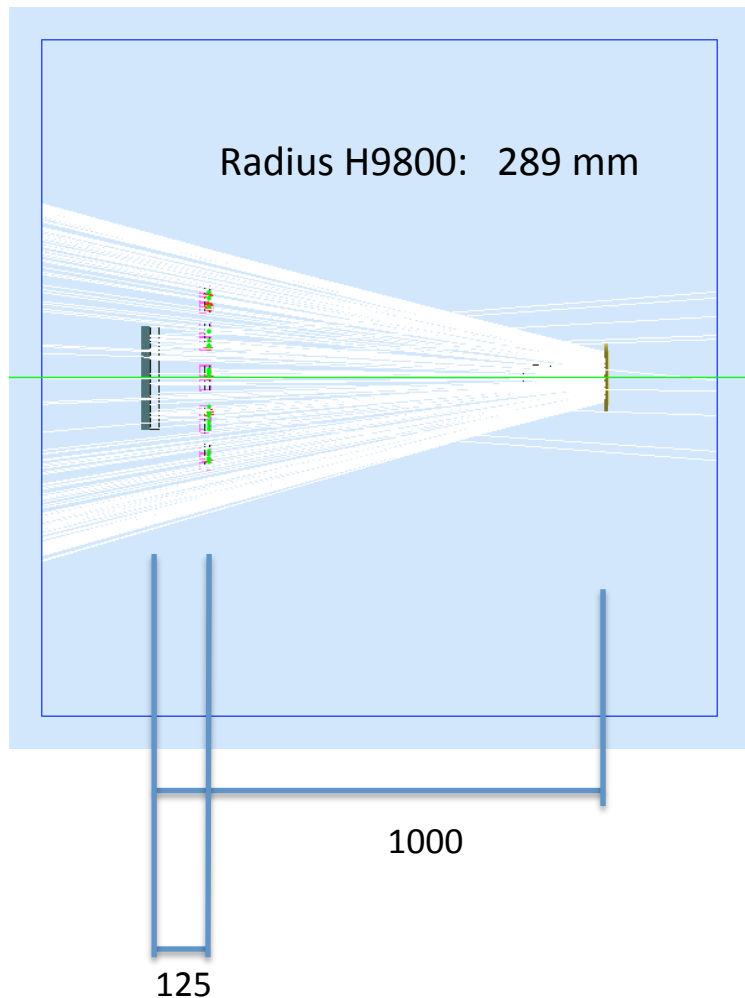
Best value $x=100-125$ mm



Reference at 6 GeV

(0.0) is at the centre of radiator

Mirror: Edmund 150 mm dia



Mirror reflecting face at +1000 mm
H9800 entrance window at +125 mm

Edmund, $n=1.04$

H8500

Each plot has a H8500 width and lines indicate the pixels

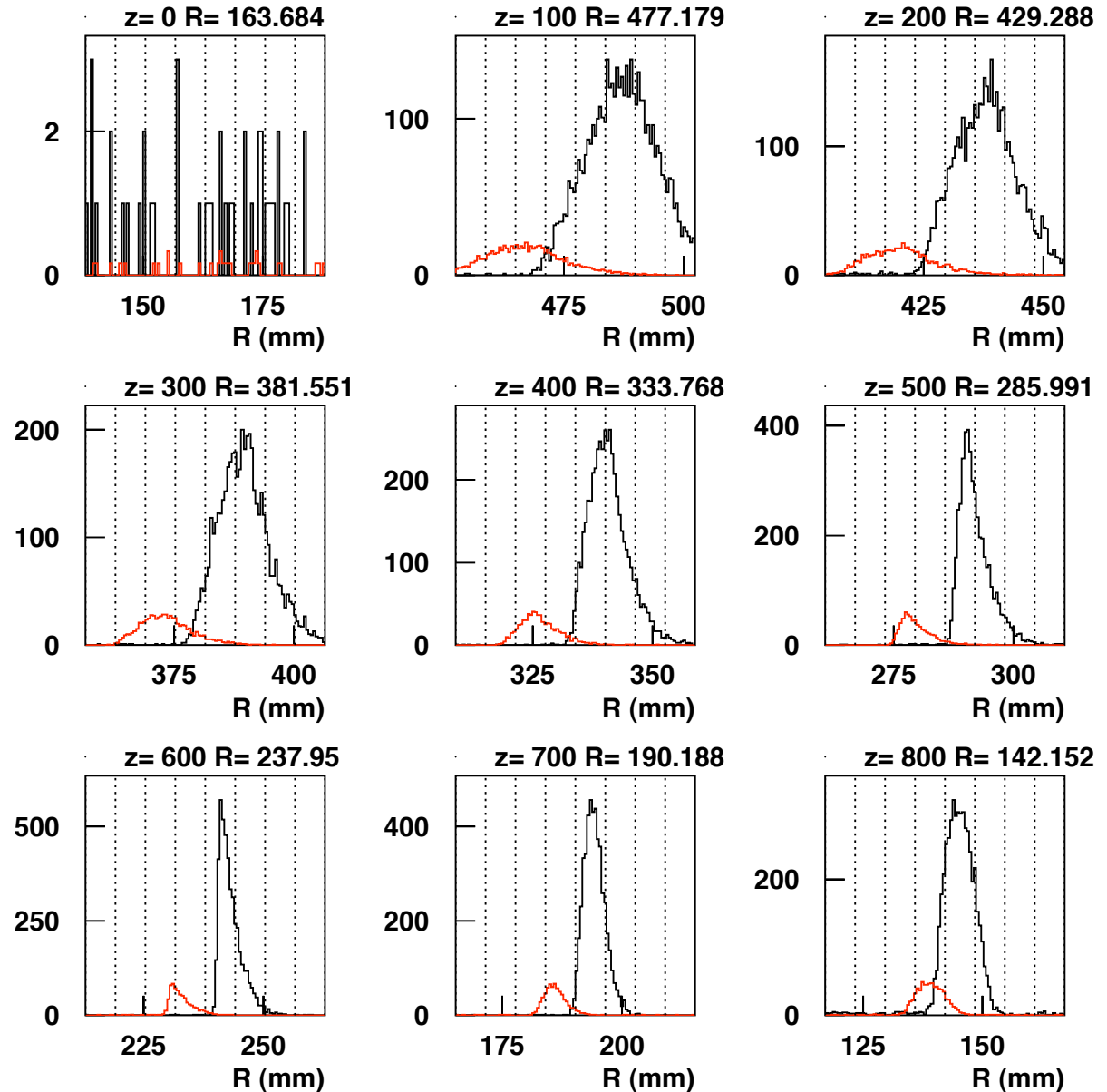
On top of the plot is indicated:

- the radius of the H8500 arc
- The aerogel+mirror z position (corresponding to the center of aerogel)

The z position at the entrance window of the H8500 is 1000 mm

The radius is the average of Pion and kaon radii

Best value $x=100-125$ mm



Edmund, $n=1.05$

H8500

Each plot has a H8500 width and lines indicate the pixels

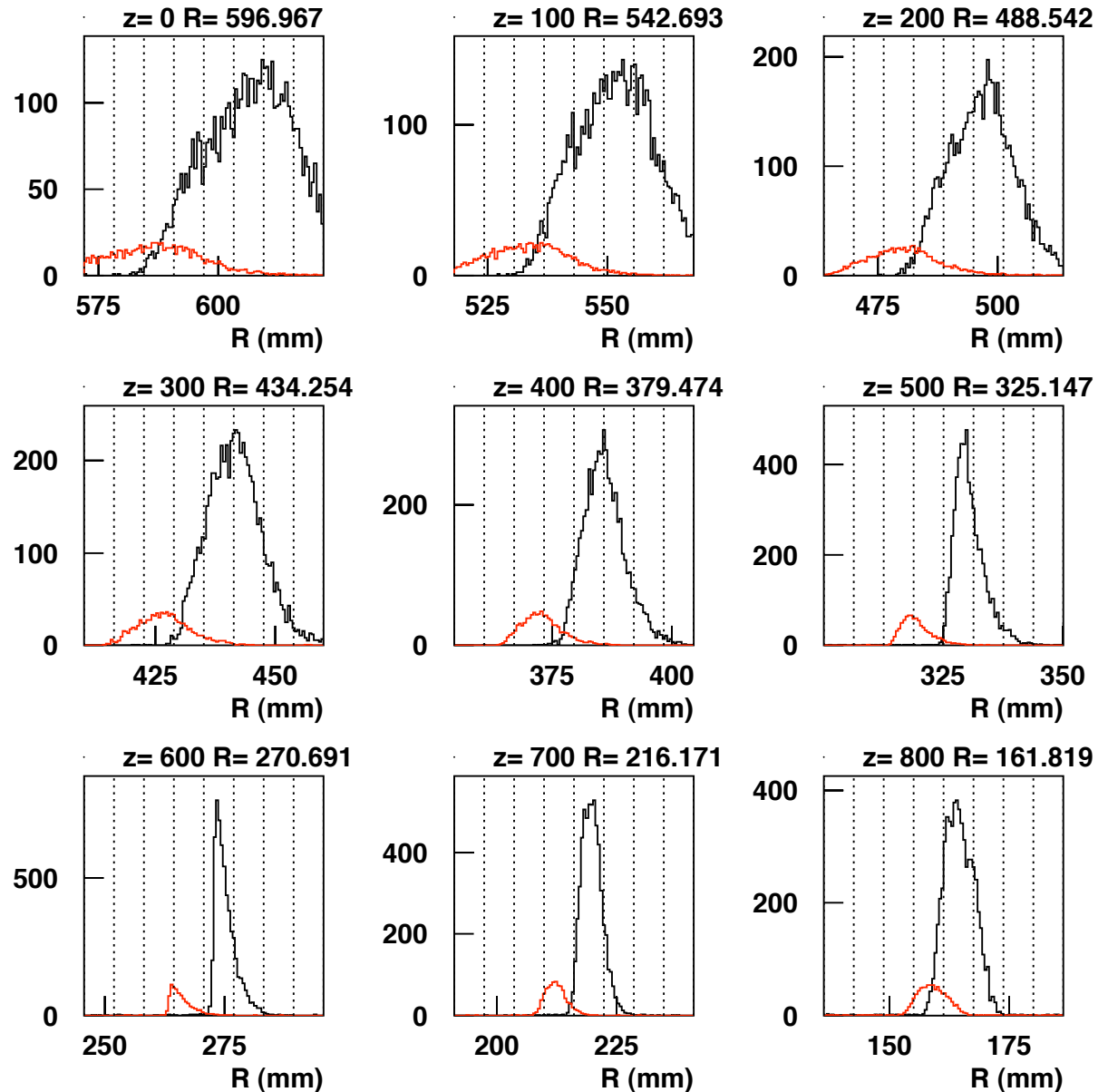
On top of the plot is indicated:

- the radius of the H8500 arc
- The aerogel+mirror z position (corresponding to the center of aerogel)

The z position at the entrance window of the H8500 is 1000 mm

The radius is the average of Pion and kaon radii

Best value $x=100-125$ mm



Edmund, n=1.06

H8500

Each plot has a H8500 width and lines indicate the pixels

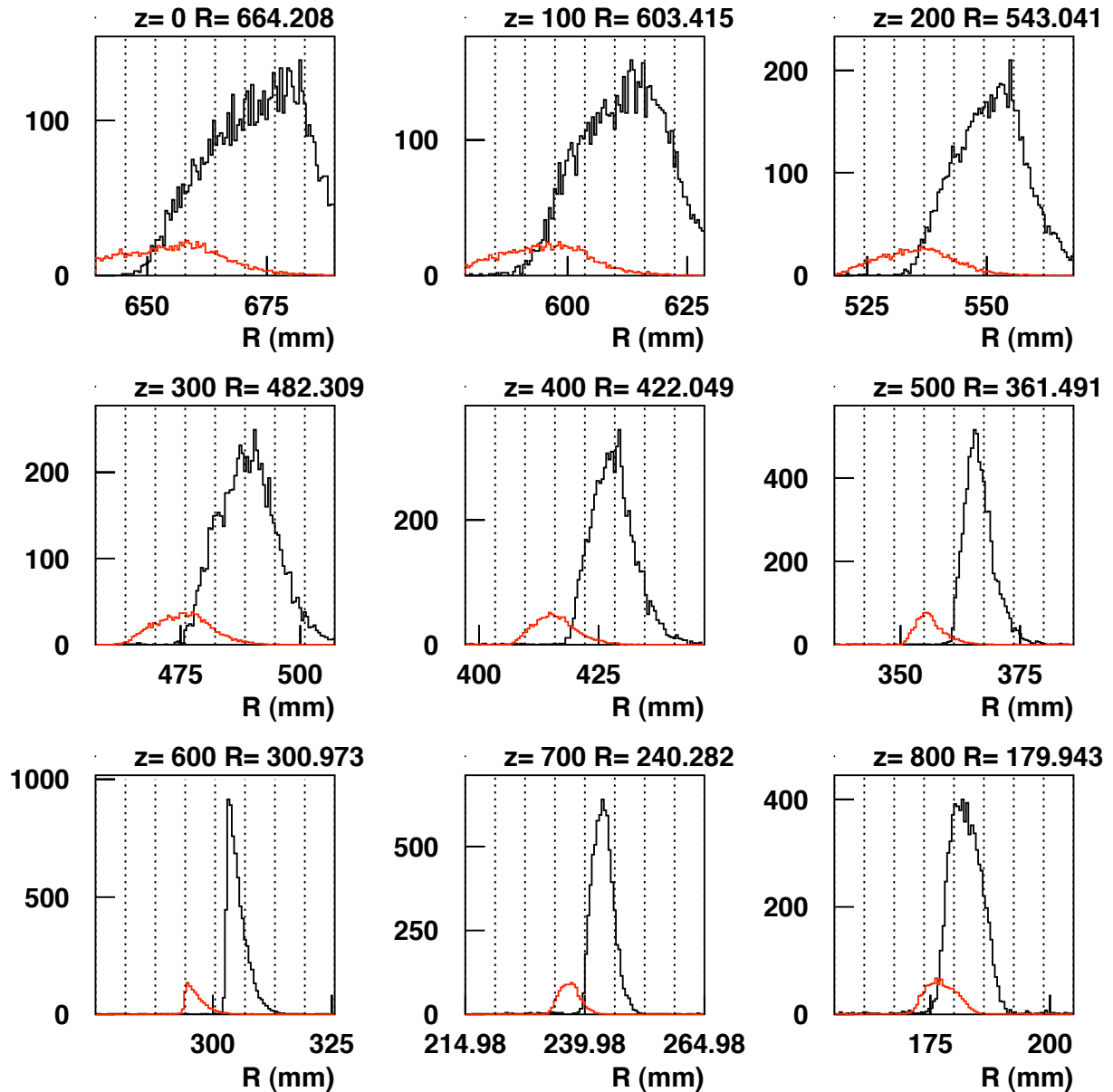
On top of the plot is indicated:

- the radius of the H8500 arc
- The aerogel+mirror z position (corresponding to the center of aerogel)

The z position at the entrance window of the H8500 is 1000 mm

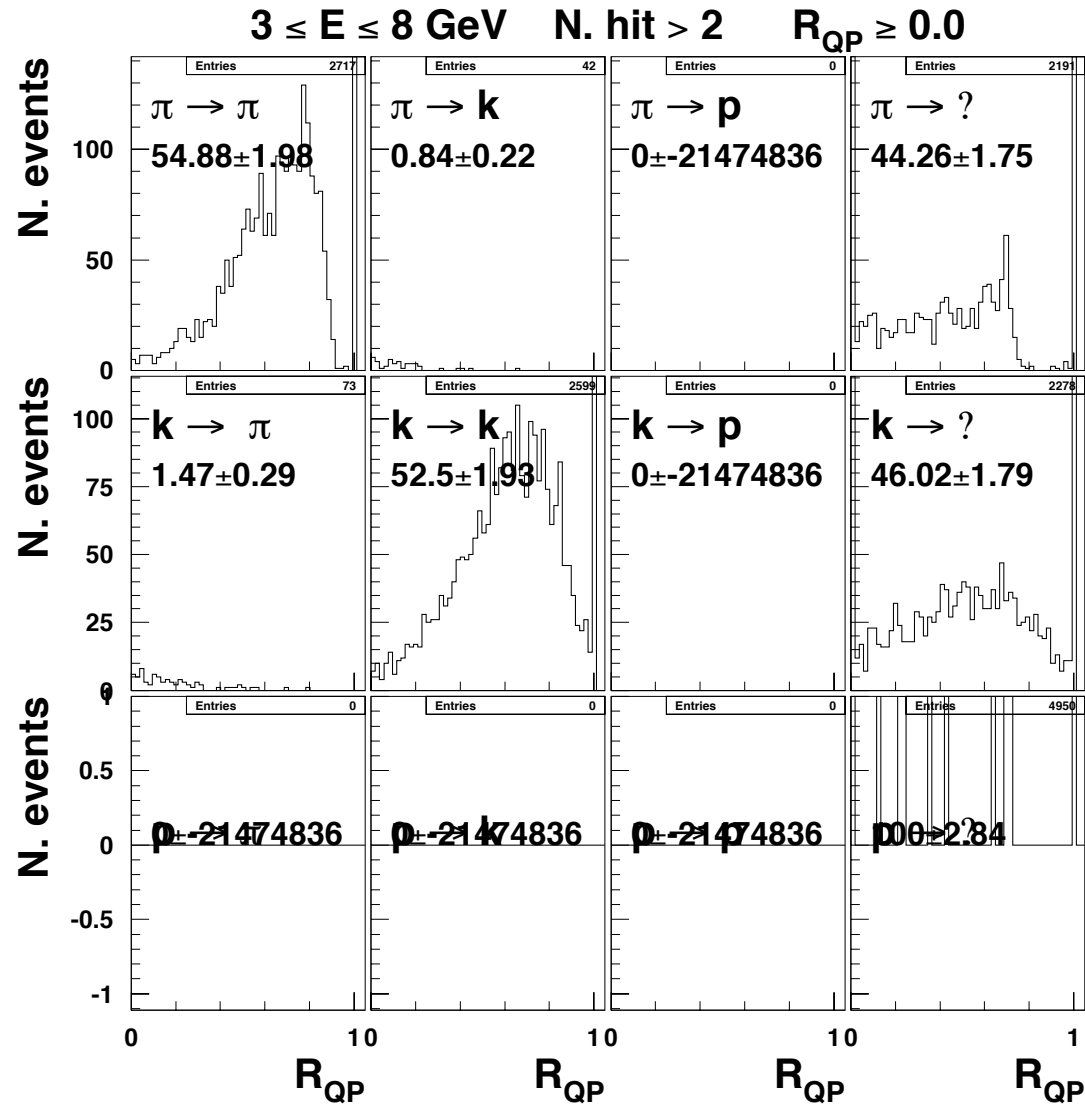
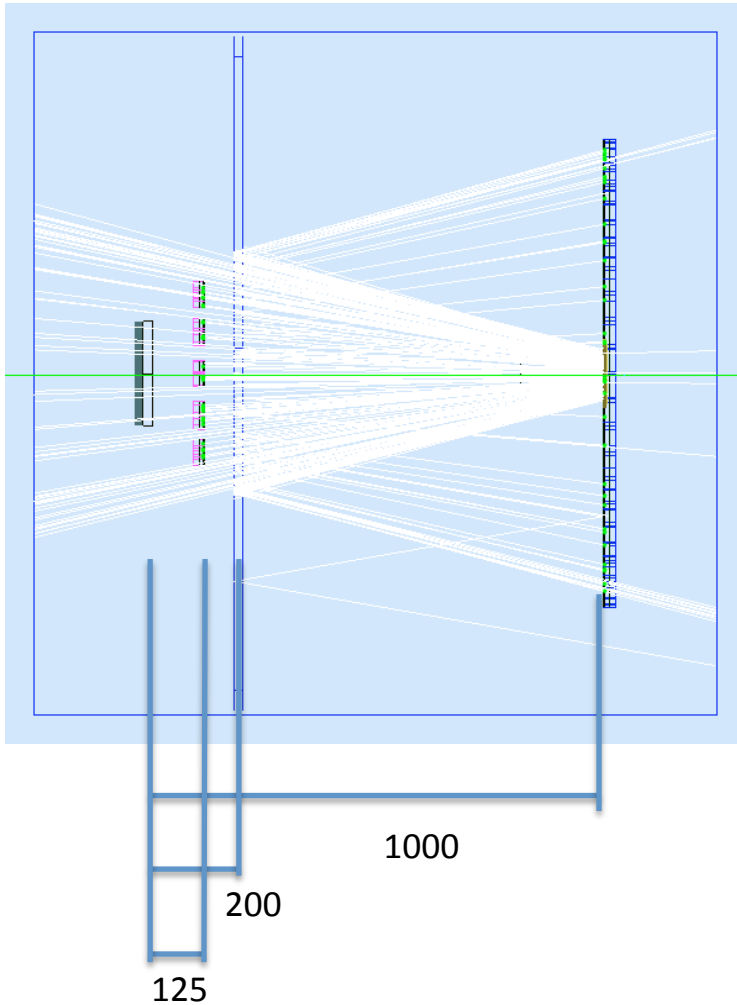
The radius is the average of Pion and kaon radii

Best value $x=100-125$ mm



Reflect light at 6 GeV

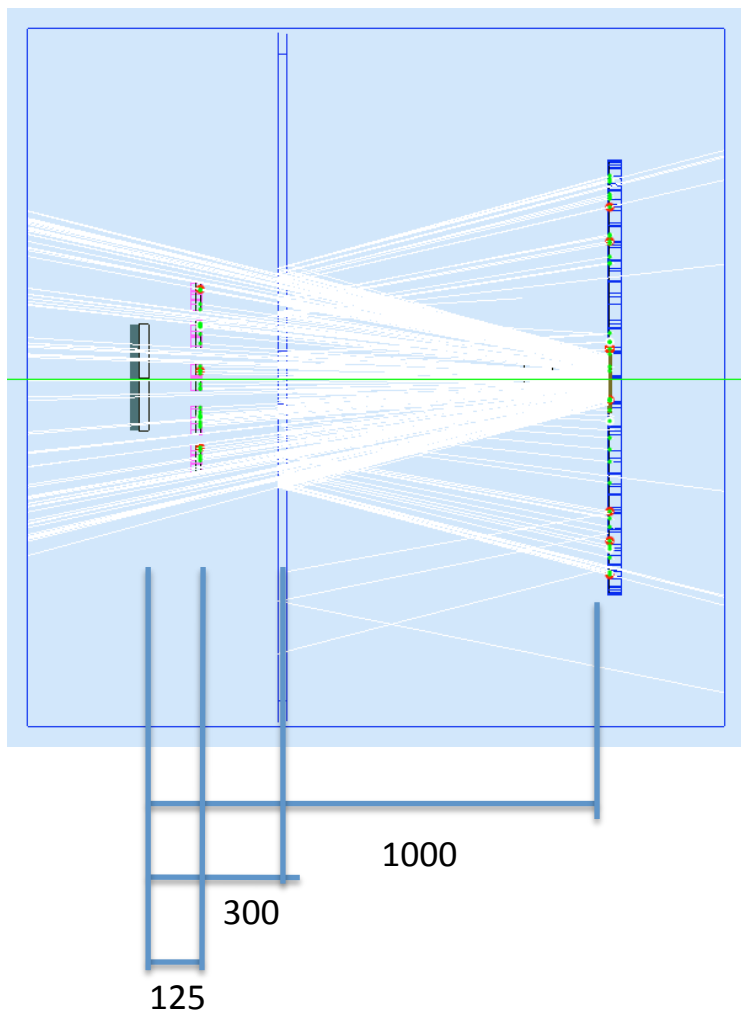
Radius H8500: 488.6 mm



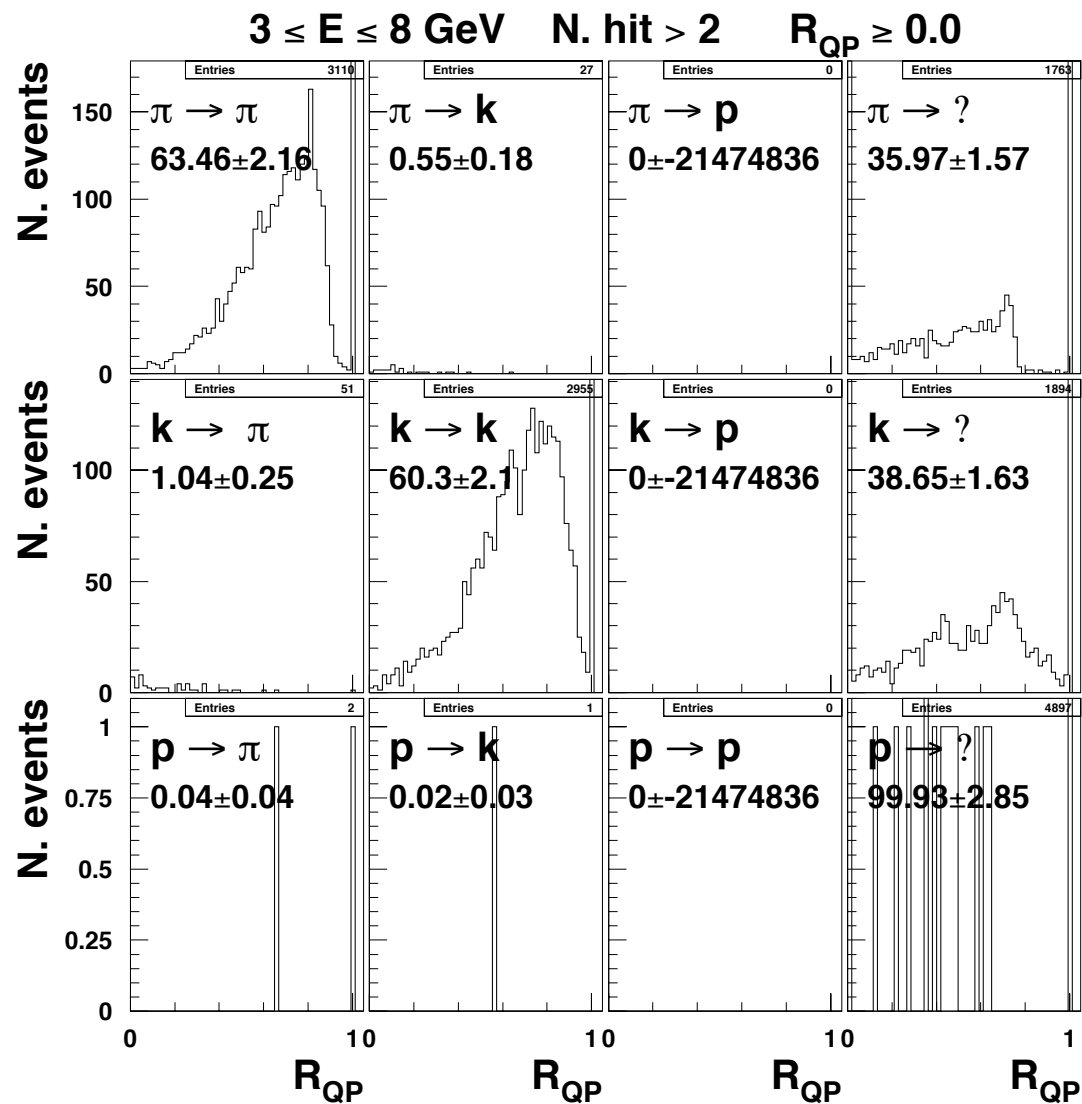
Aerogel-mirror system at +200 mm
H8500 entrance window at +1000 mm

Reflect light at 6 GeV

Radius H8500: 441.6 mm

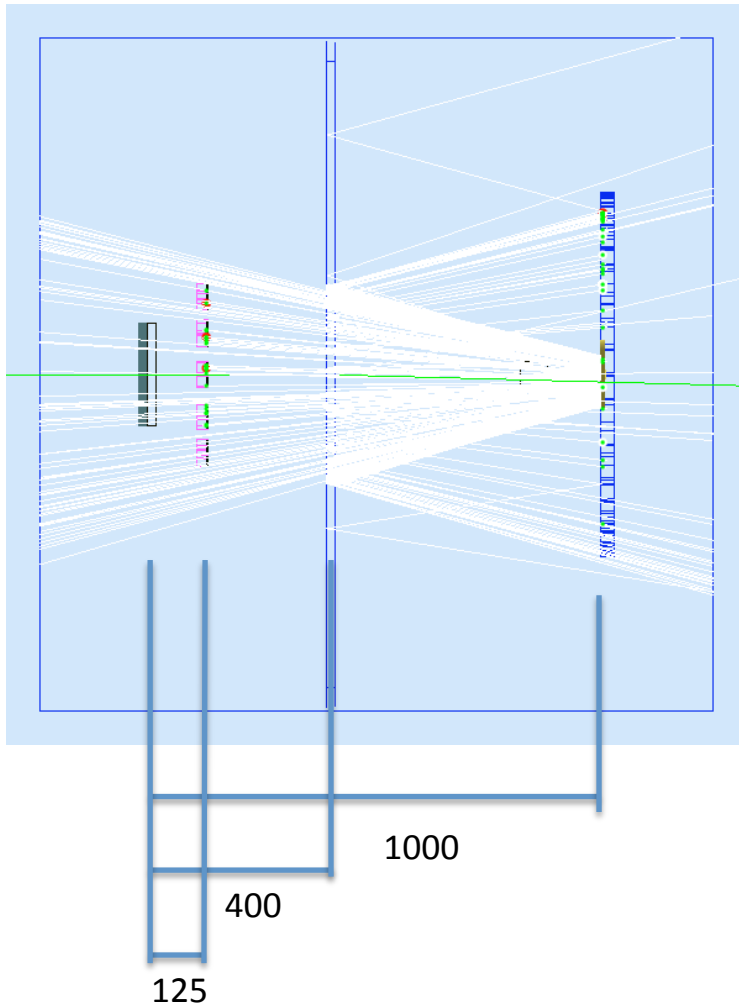


Aerogel-mirror system at +300 mm

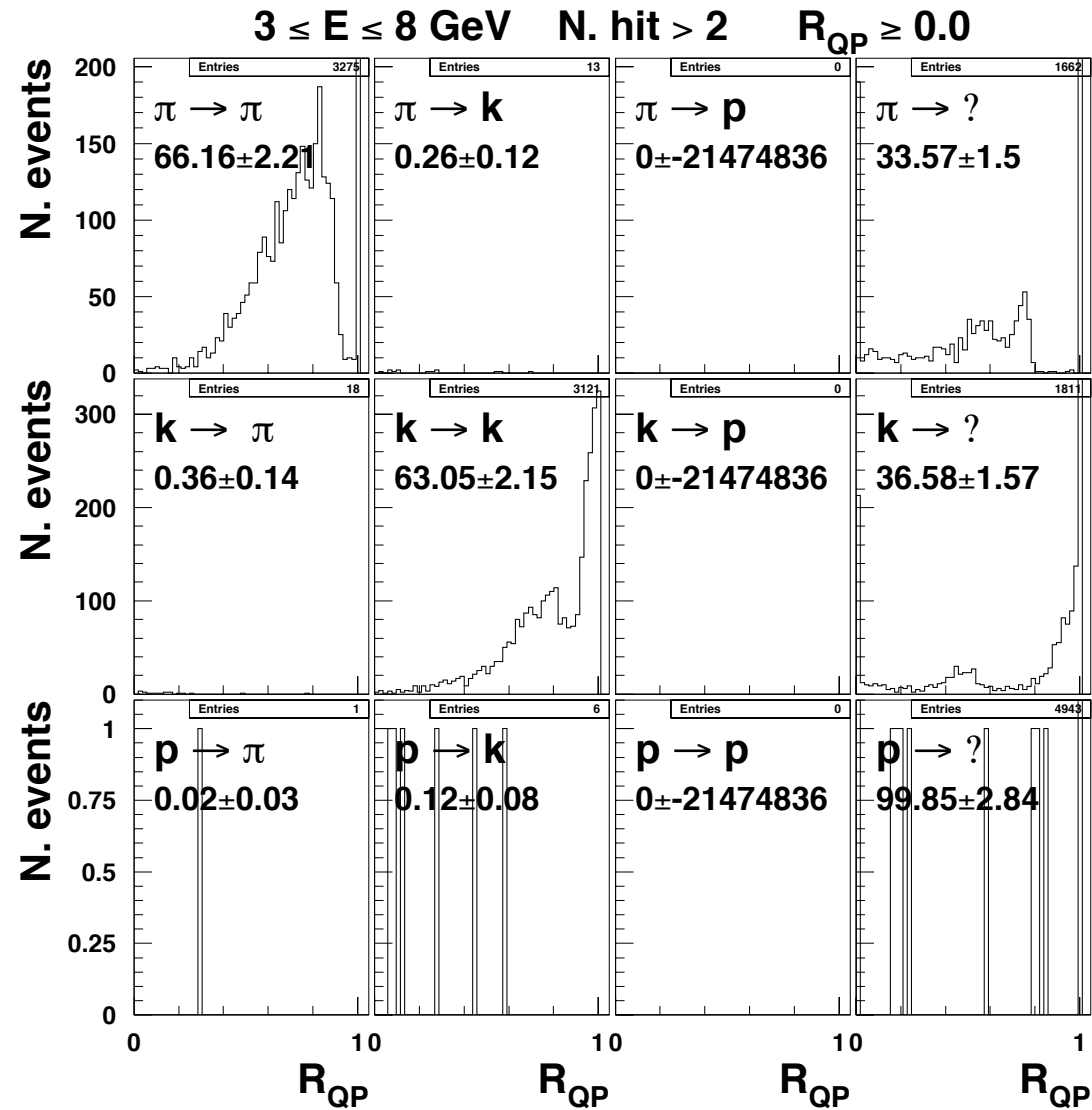


Reflect light at 6 GeV

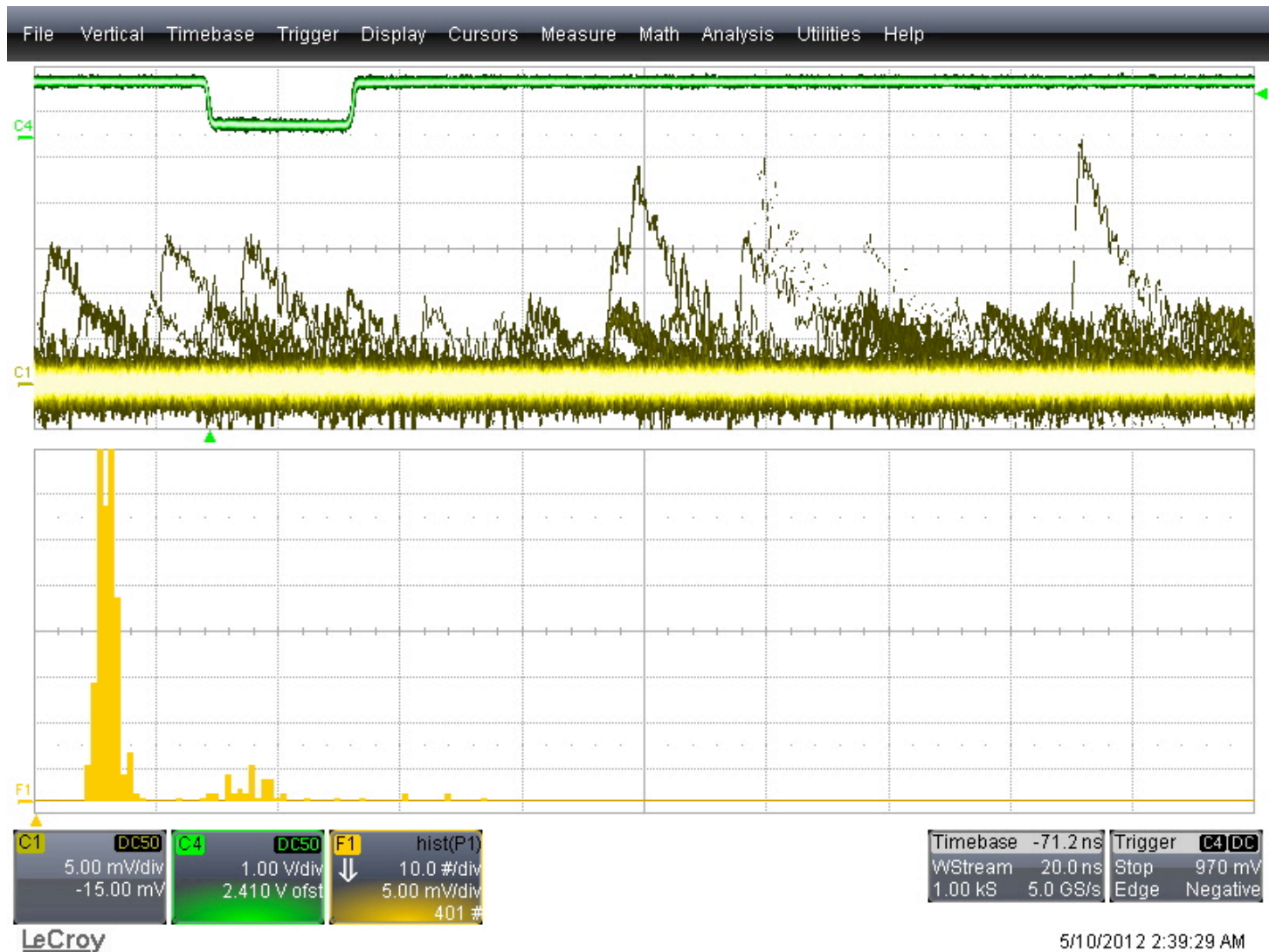
Radius H8500: 379.5 mm



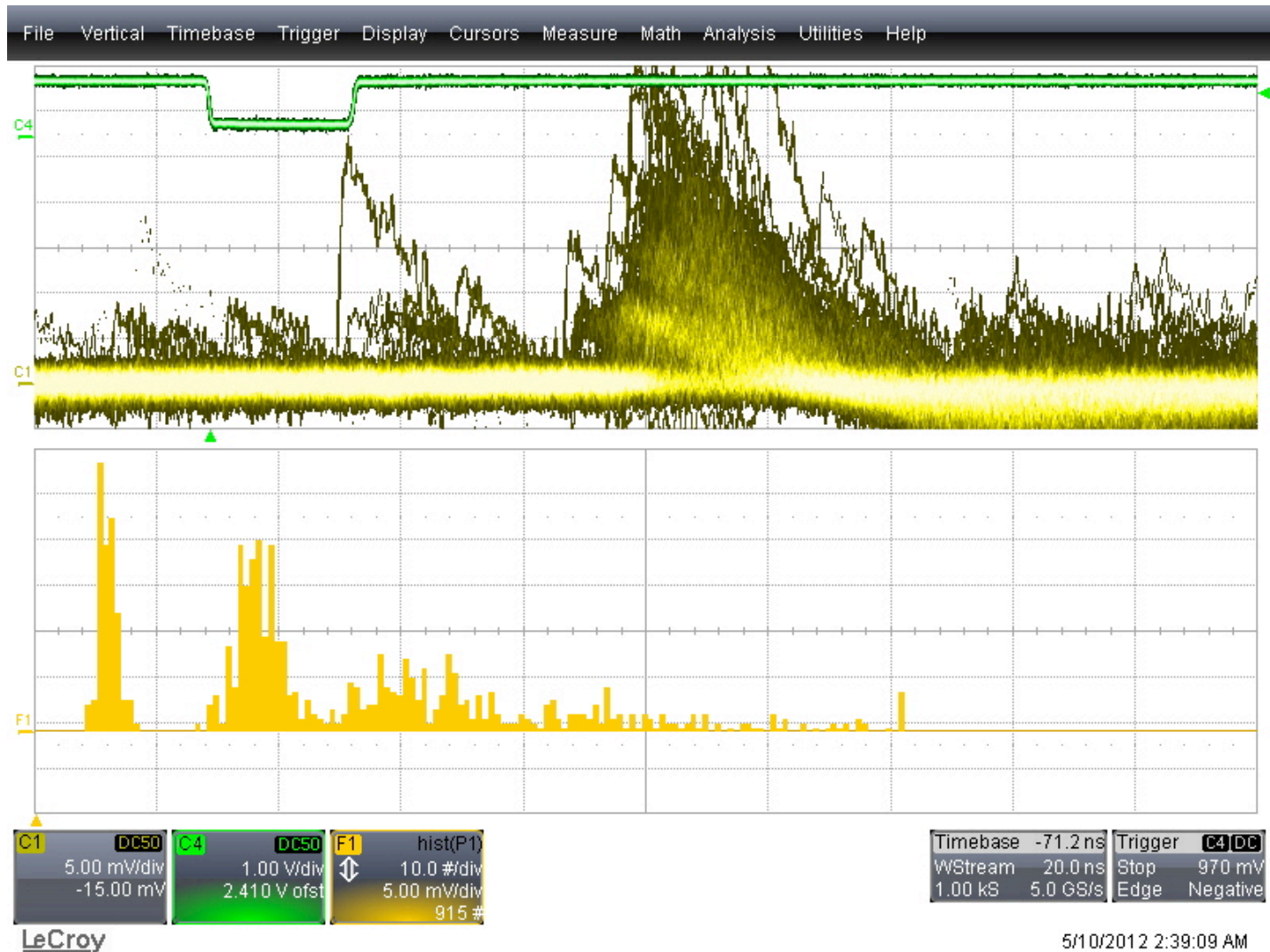
Aerogel-mirror system at +400 mm



SiPM dark count



SiPM few-photons detection



SiPM few-photons detection

