

Test Beam Analysis at McGill

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- ★ setup from scratch
- ★ current results
- ★ conclusion and outlook

★ setup from scratch

★ setup your machine

- ★ install ilc-software -> <https://twiki.cern.ch/twiki/bin/view/CALICE/SoftwareInstallation>

- ★ probably add in calice_v**.cfg the CEDViewer

- ★ install glite Middleware to use the grid

- ★ get your grid-certificate

★download files from the grid

- ★ lcg-cp -v --vo calice lfn:<file name on the grid> file:<file name and directory on your machine>

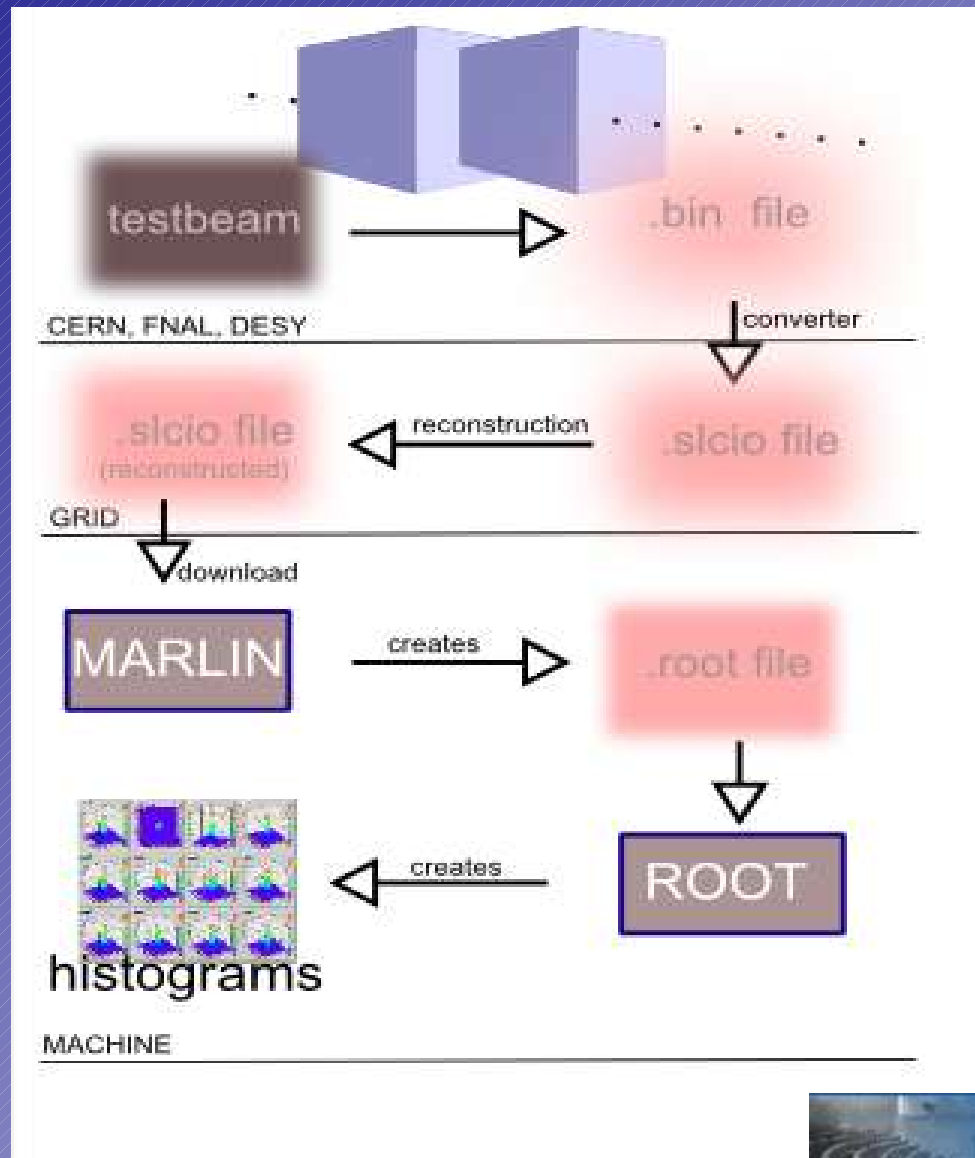
★first look on the data with "anajob" and "dumpevent"

- ★ anajob ***.slcio

- ★ dumpevent ***.slcio <eventnumber>



★ data flow





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page discussion view source history

Main Page

Contents [show]

<http://www.hep.physics.mcgill.ca/XHEP/ILC/wiki/>

Introduction

This Wiki gives a summary of the commands and needs to deal with the data analyses of the ILC. Primarily the wiki shows how one can start working with the analyses (i.e. getting the grid certificate). Furthermore you can find example files which are commented with the aim that you can familiarize very quickly and you can tie in with the work which is already done.

ILC working group at McGill

The ILC working group at the McGill University in Montreal deals with the data analyses of the [ILD detector](#) which will be one of three detectors at the [International Linear Collider](#). The working group is also a member of the [CALICE](#) collaboration.

<h4>Getting started</h4> <ul style="list-style-type: none"> ■ File structure ■ GRID certificate ■ Marlin Processor ■ Root preProcessor 	<h4>ILC</h4> <ul style="list-style-type: none"> ■ How to search for files in the GRID ■ How to get files out of the GRID ■ How to use the CED Viewer on the data ■ Get information of the events
<h4>ROOT examples</h4> <ul style="list-style-type: none"> ■ Create a histogram with two branches declared as an array ■ Create a plot with different branches and use a macro ■ Create a branch out of two branches with different trees 	<h4>Marlin examples</h4> <ul style="list-style-type: none"> ■ A marlin file example

Work of Summer 2009

- [MARLIN Processors](#)
- [ROOT files](#)
- [Important file directories](#)

instruction steps are being written down and will appear shortly

Work of Summer 2008

Members of the group

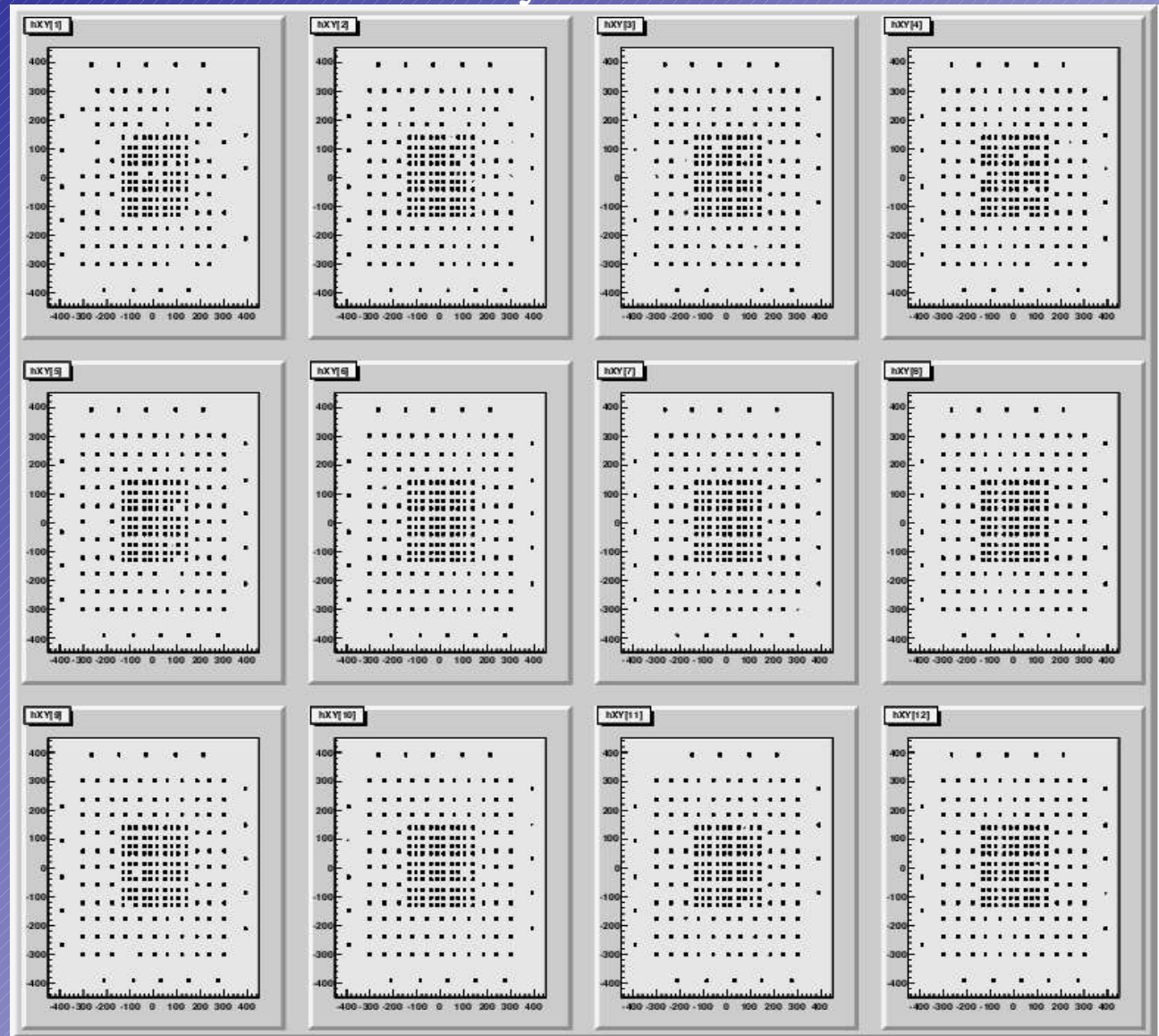
- [Prof. François Corriveau](#)
- [Ze Yue Niu](#), NSERC USRA Summer Student 2008 (from University of Toronto)
- [Michael Stoebe](#), Summer student 2009 (from Technical University Dresden, Germany)
- [Alexandra Thomson](#), NSERC USRA Summer student 2009 (from McGill)
- [Steffen Henkelmann](#), Summer student 2009 (DAAD Student from University of Goettingen, Germany)
- [Daniel Trojand](#), Master Student (from McGill)



★ current status

Layer 1-12

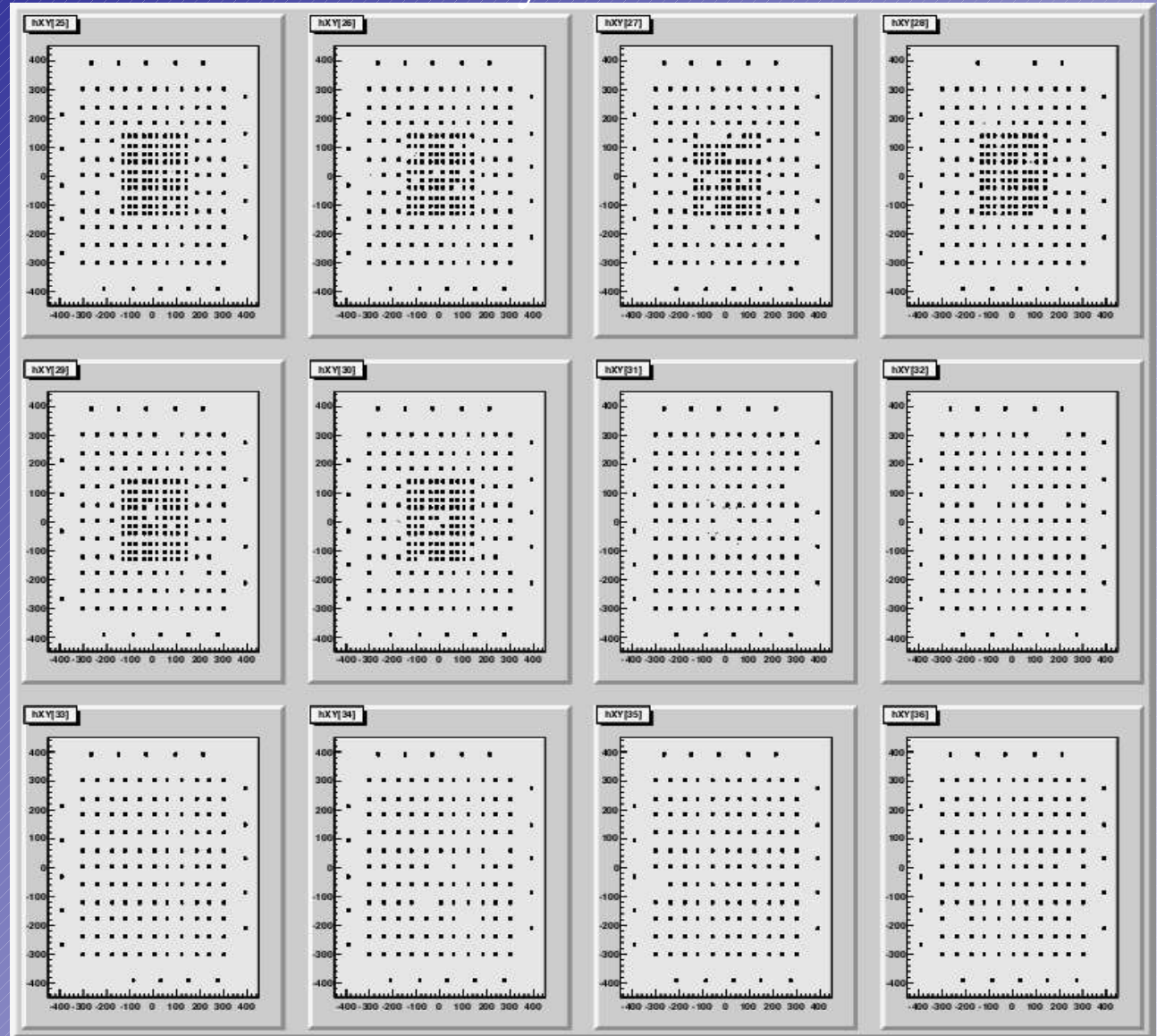
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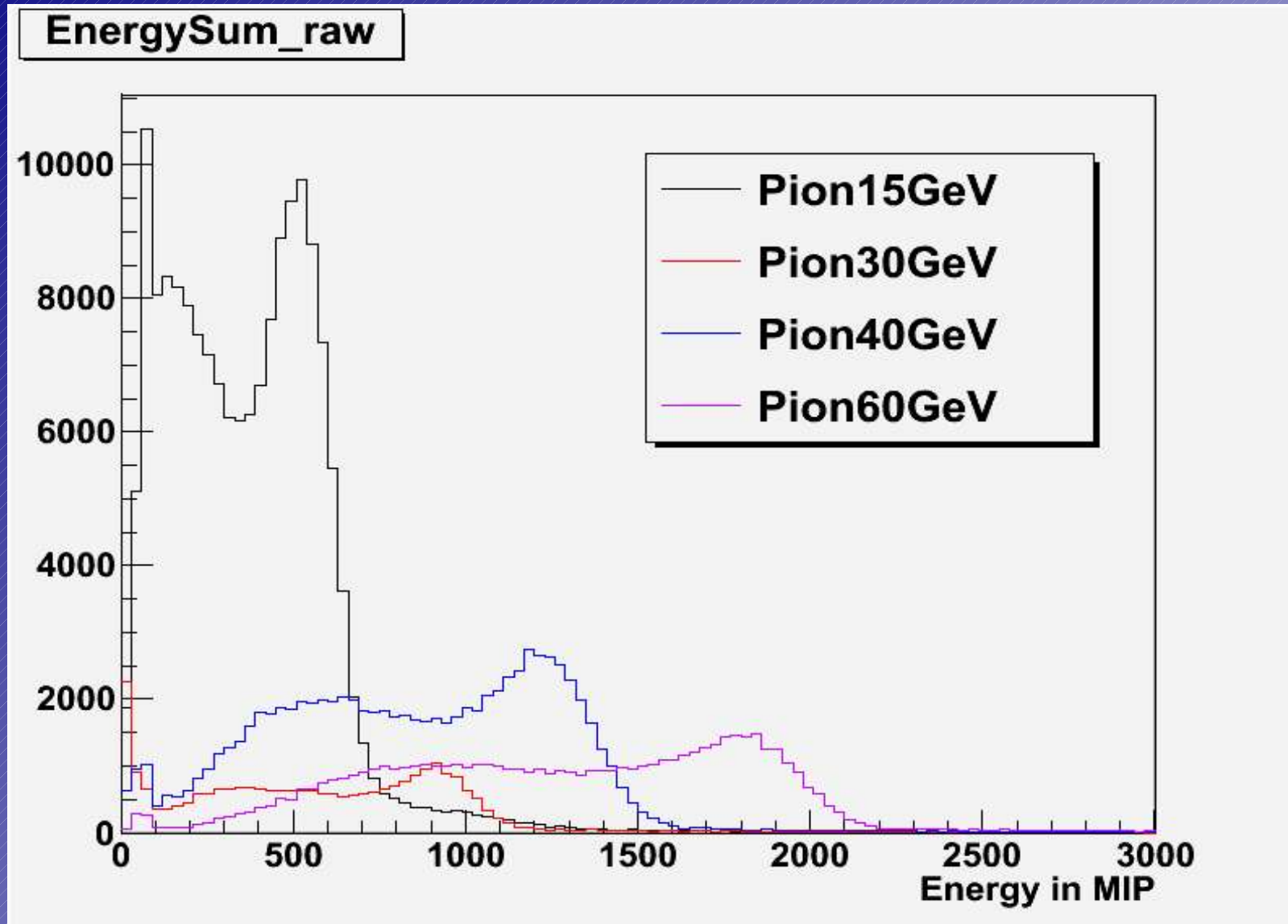
★ current status

Layer 25-36

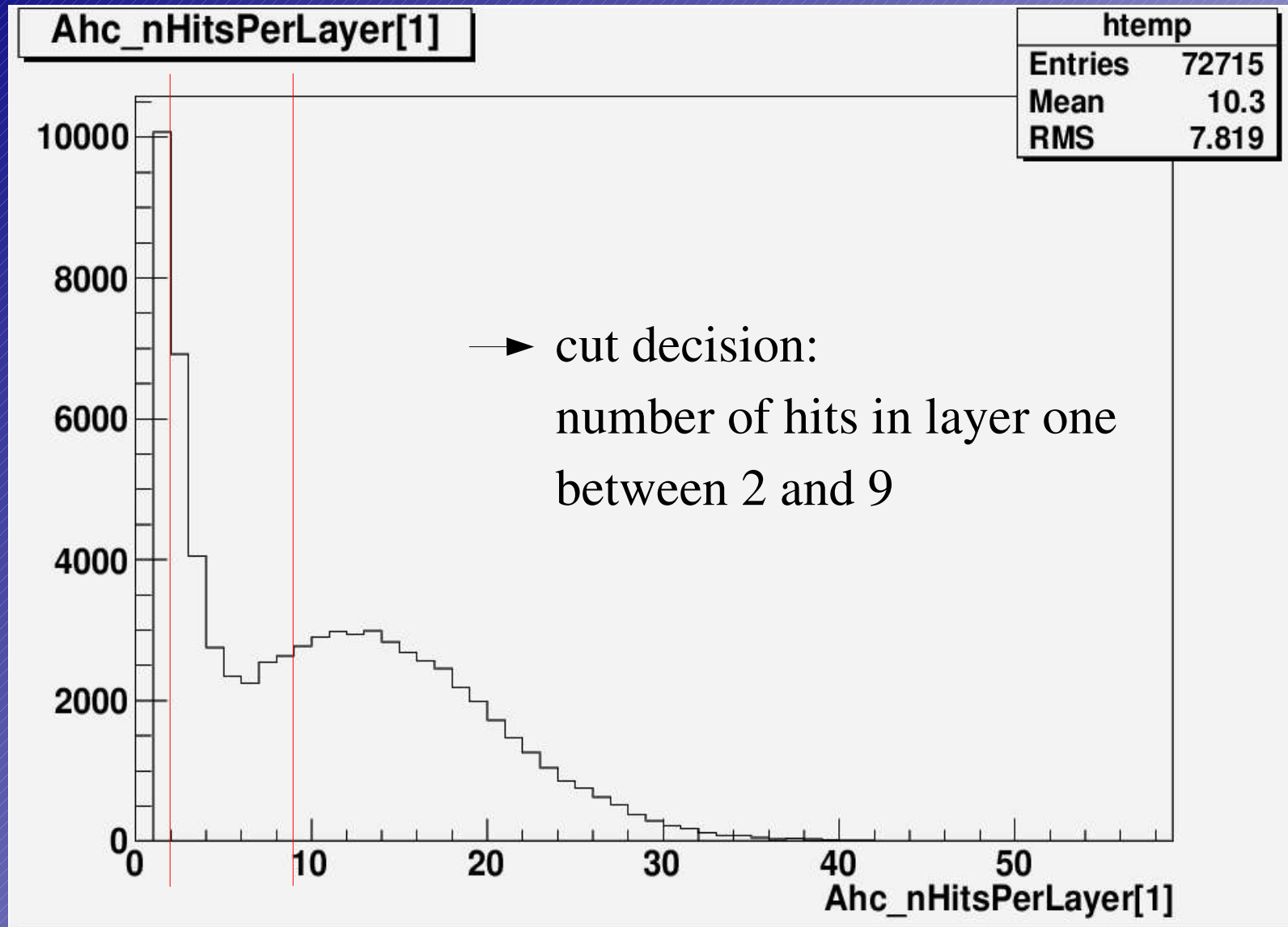
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per Layer



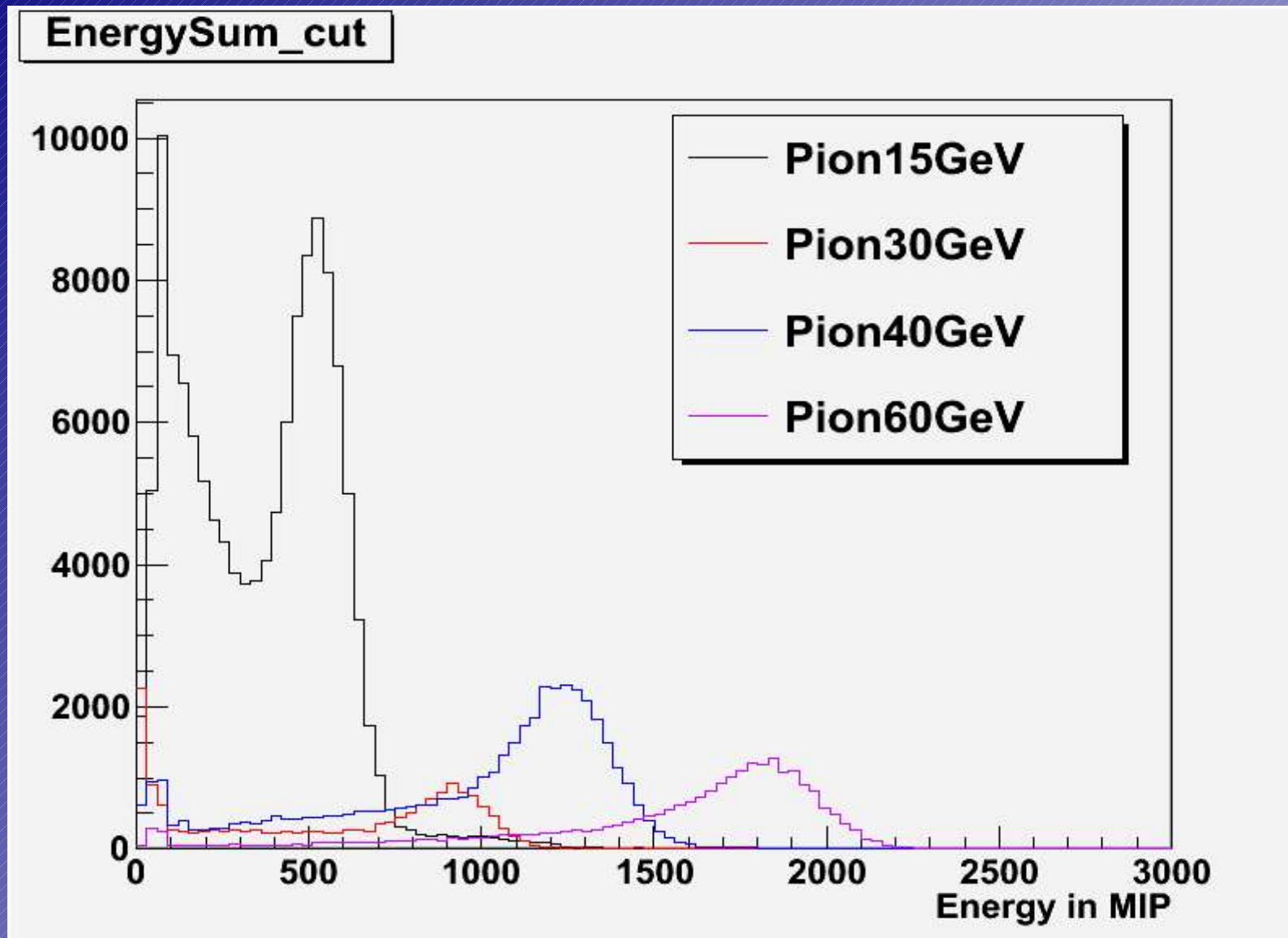
★ current status



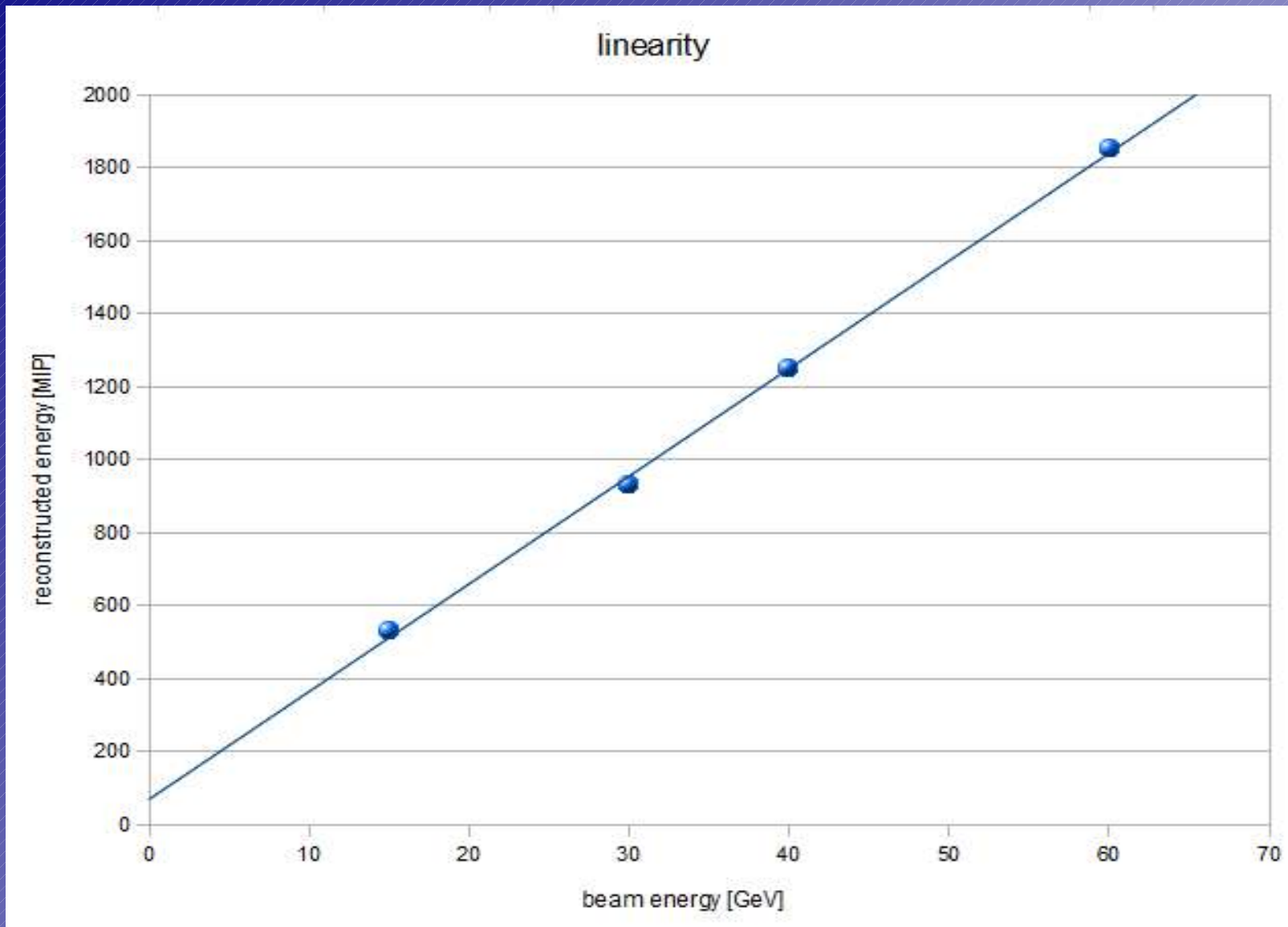
★ current status



★ current status



★ current status

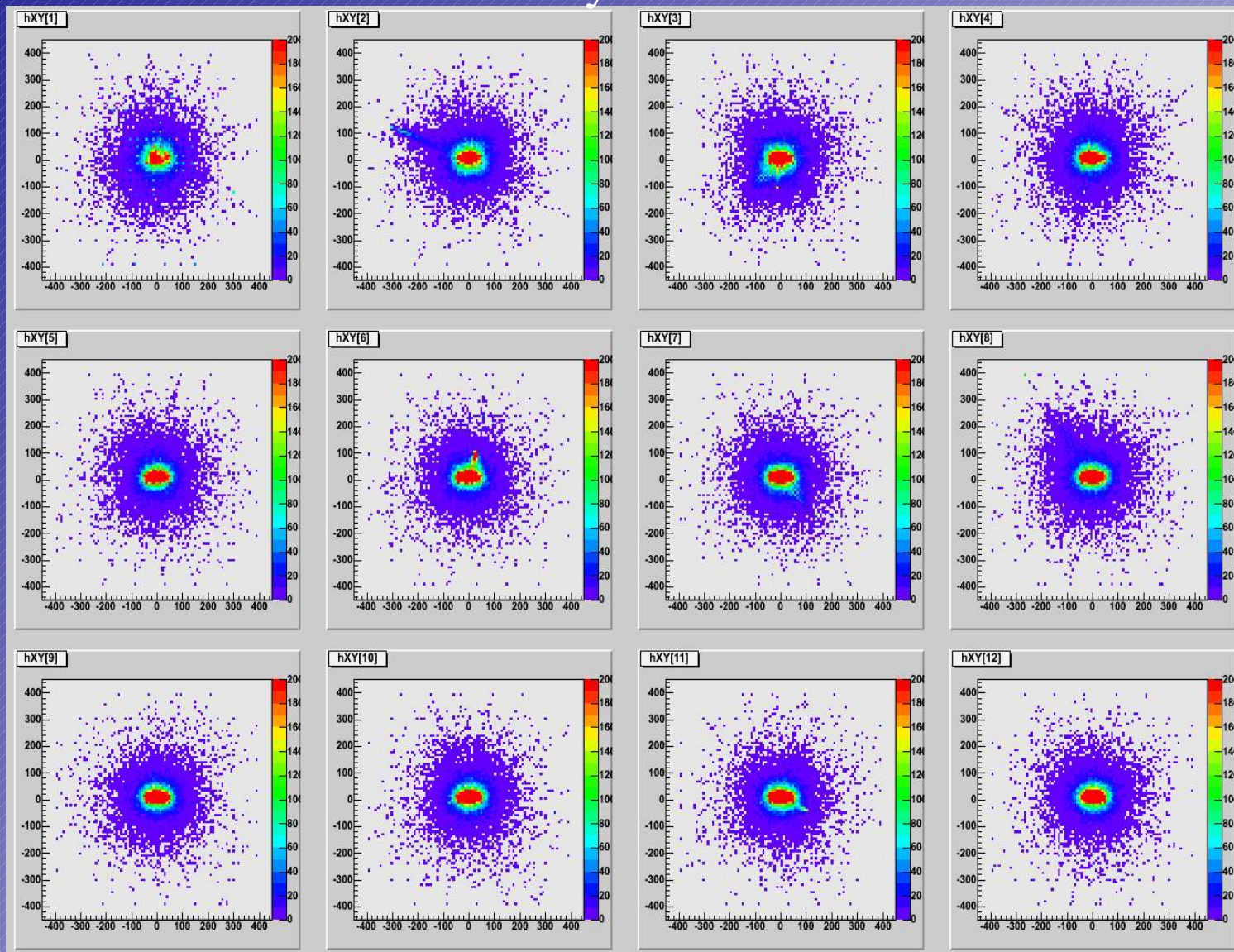


★ current status

Layer 1-12

Center
of Gravity

0 degree

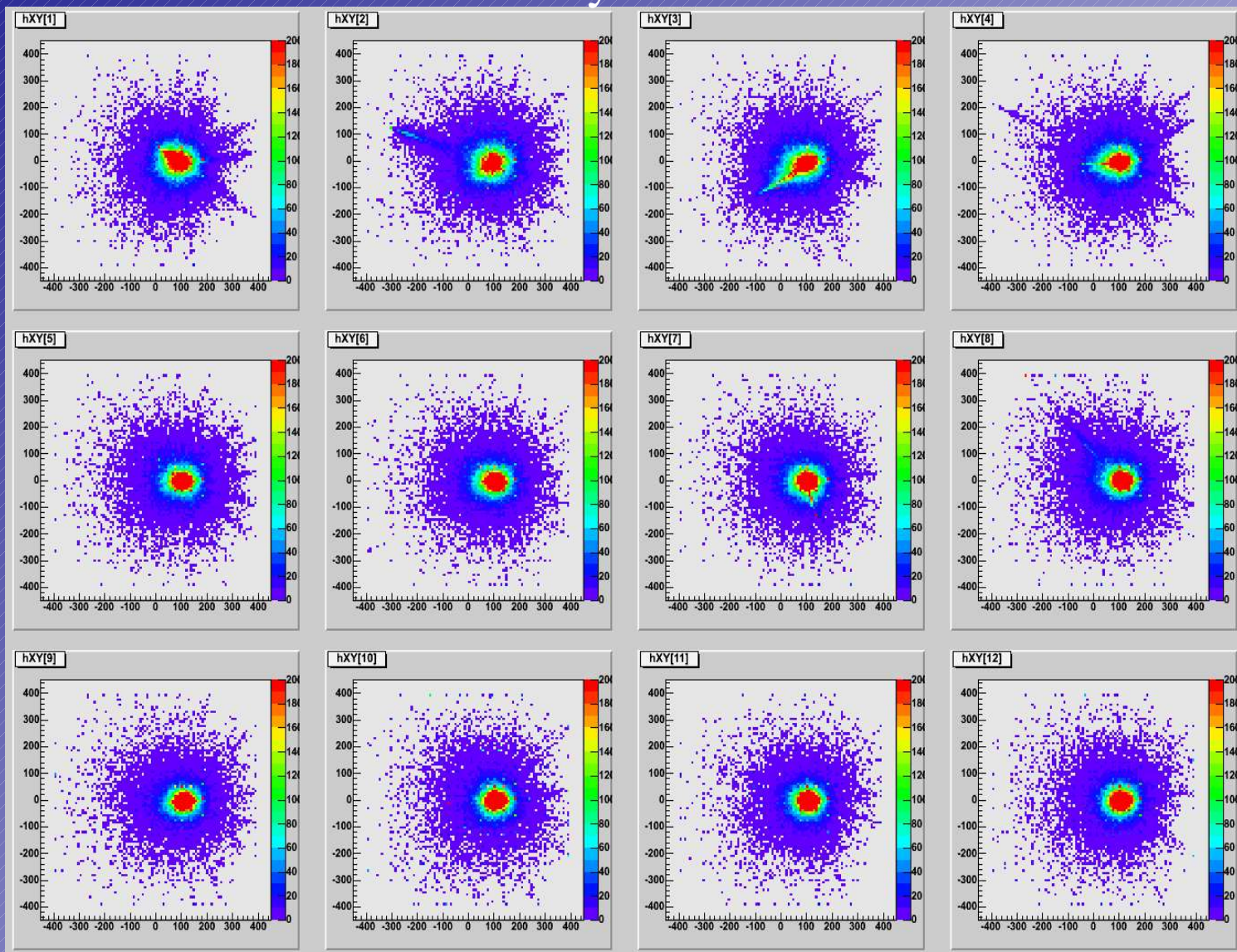


★ current status

Layer 1-12

Center
of Gravity

20 degree

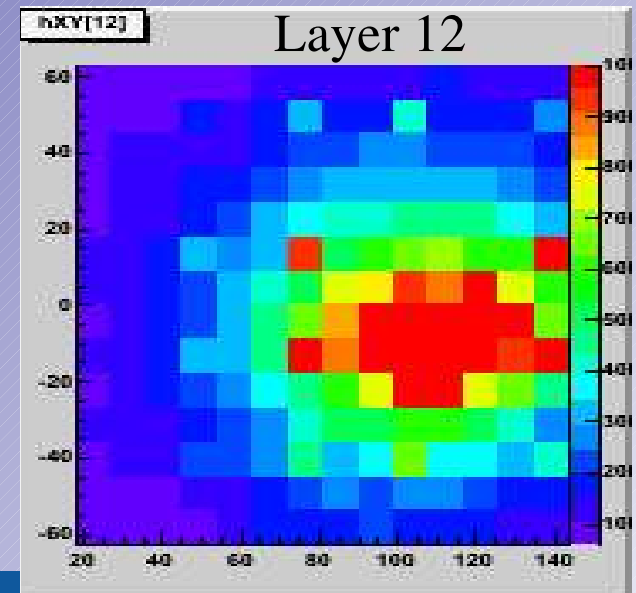
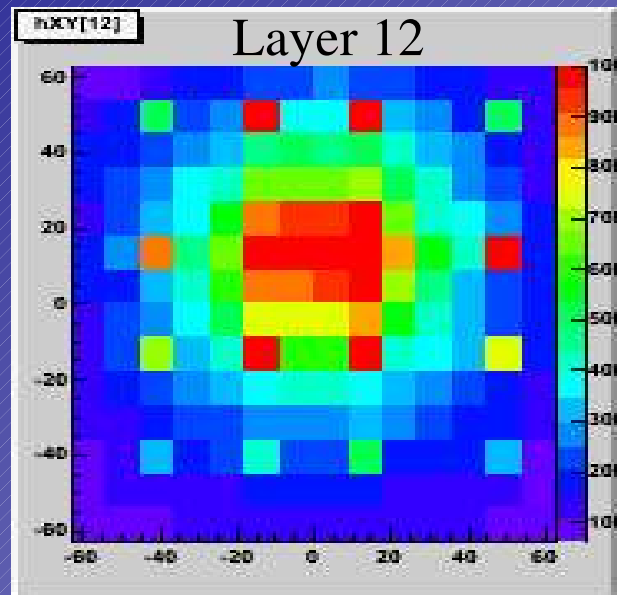
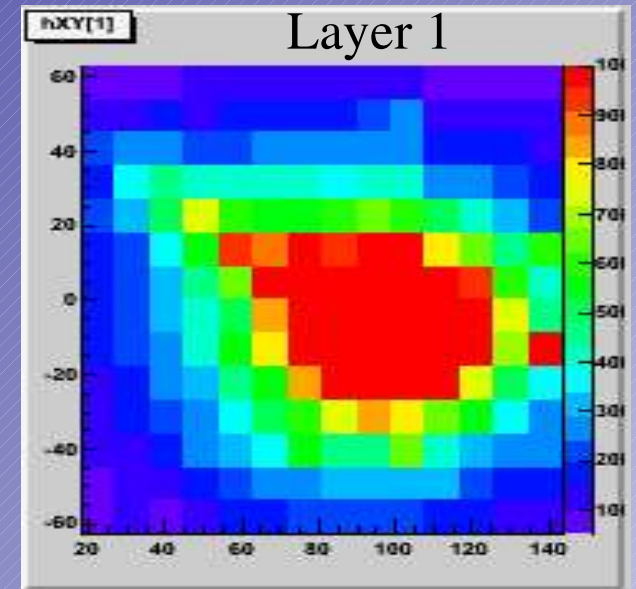
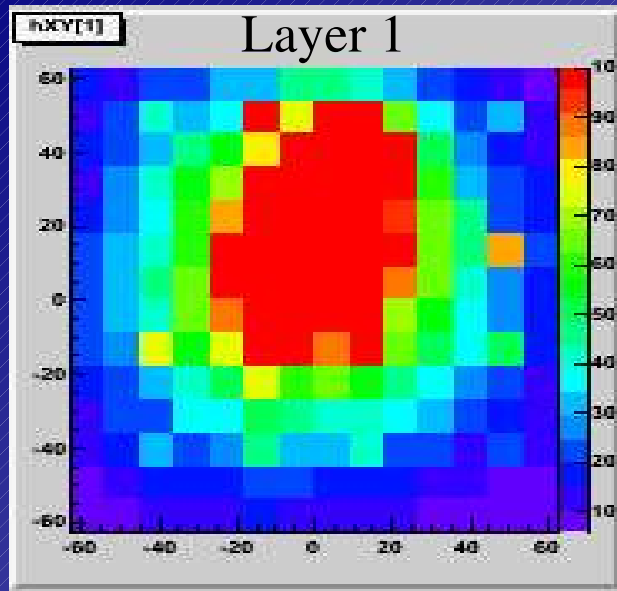


0 degree

☆ current status

20 degree

Center of Gravity



CALICE week at IPN Lyon

★ conclusion and outlook

- ★ we have installed all the ilc / calice software
- ★ we can access the data
- ★ all steps are being documented

- ★ concerted dead channel procedure is necessary
- ★ we have started an analysis program on position, angle and energy resolution



★ special thanks

★ Niels Meyer (FLC, CALICE, DESY)

★ Angela-Isabela Lucaci-Timoce (FLC, CALICE, DESY)

