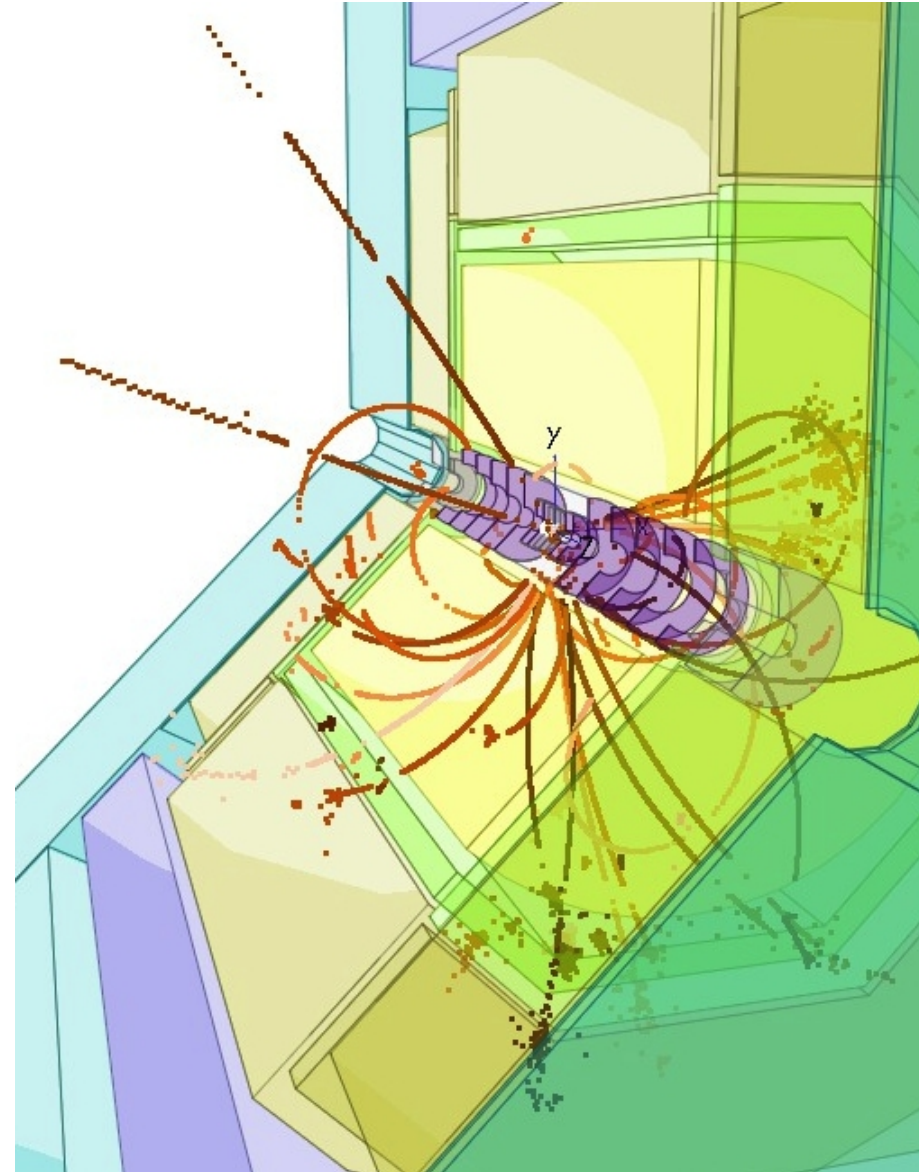


# Update on iLCSoft release v01-17-07

Frank Gaede  
ILD Software&Analysis Meeting  
June 10, 2015

# Outline

- overview
- compilers to be used
  - gcc44 vs gcc48 and c++11
- KalTest
- Timeline



# overview: release v01-17-07

- preparing next 'developers' release v01-17-07
- fully compatible w/ previous releases (i.e. Mokka)
- introduces first version of new simulation/reconstruction
- many packages changed (30 out of 59)
- aim to release this before HLR week @ DESY
- have one patch release later this summer
- => fix bugs and add new HLR tools
- should become 'reference' release for physics & optimization studies until new tools are validated
- v01-18-00

# compilers for v01-17-07

- need/want to move to c++11 soon
  - improvements in PandoraPFA CPU performance
  - needed by ROOT 6 ( will have to switch soon)
  - benefir from language improvements
- requires non-system compiler on SL6 gcc 4.8
  - -> for user convenience will stay with gcc 4.4 as standard and only provide 'experimental' version in afs/cvmfs with '-std=c++11' gcc 4.8:

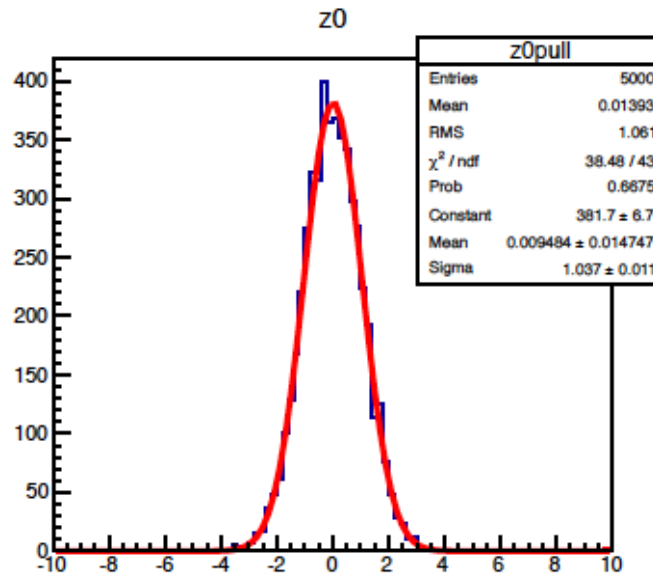
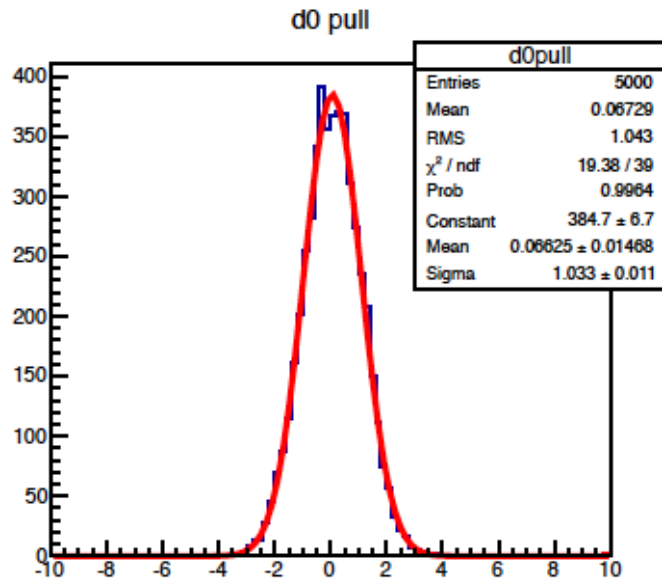
- standard compiler:
- /afs/desy.de/project/ilcsoft/sw/x86\_64\_gcc44\_sl6/v01-17-07-preXY
  - with gcc 4.8 and -std=c++11:
- /afs/desy.de/project/ilcsoft/sw/x86\_64\_gcc48\_sl6/v01-17-07-preXY

# KalTest

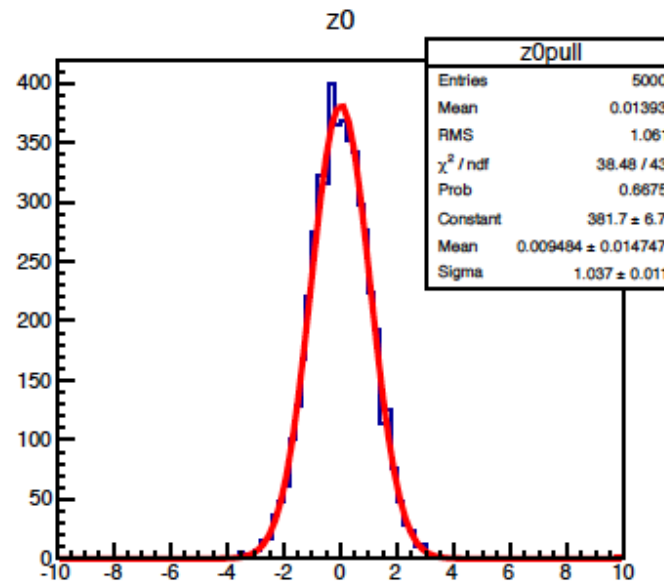
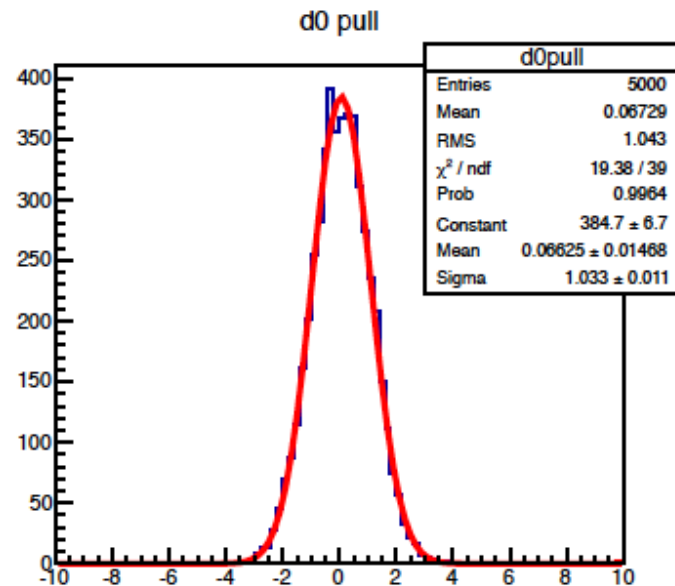
- recently a new version of KalTest that also works in **in-homogeneous** B fields has been developed (Li Bo)
- have observed issues, when this was used with a homogeneous (constant) B field
- -> bug in treatment of 1D strip hits now fixed by Li Bo
- now observe identical pulls for 'old' and 'new' KalTest
- => **will include new version in v01-17-07**
- NB: still have no code for handling field maps in coherently in DD4hep and KalTest: to be done for next release

# pulls for old and new KalTest

Li Bo



original



new

omega, tanL and phi0 are the same ...

# Status and Timeline

- have pre-release tags for all tracking packages
  - (include tracking for new lcgeo/DD4hep model)
- have release tags for PandoraPFA packages
- need to create a few more pre-release tags for some core packages: LCIO, Mokka, DD4hep, lcgeo,....
- will have new pre-release tag in afs tomorrow
  - need to iterate with authors and users on minimal quality checks...

- goal:
- finish preparation of v01-17-07 by end of next week
- have actual release in the week after
- well in advance for HLR week @ DESY