John Alison: Global update on vis

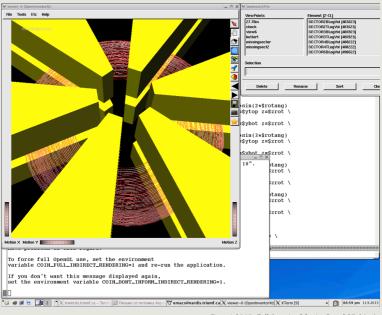
Already shown in plenary 6

Fred Jones: Updates on OpenInventor

RTRIUMF

Open Inventor Extended Viewer

 The original Open Inventor viewer (OIX) has been extended (OIXE) with features including element navigation, orientation controls, trajectory following, animations, and saving and restoring viewpoints and camera settings.



Geant 2018 Collaboration Meeting Lund 27-31 August

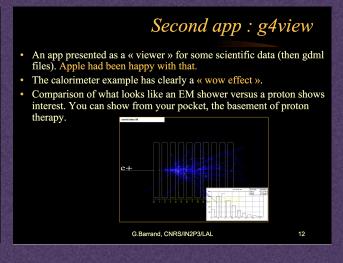
Fred Jones: Updates on OpenInventor

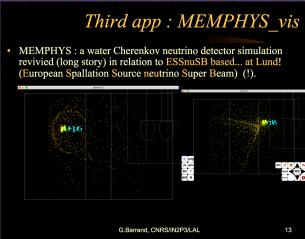
- New OIQt under development will be similar to OIXE but with minimum dependencies to X librairies
- Some issues are to be fix for CMake configuration
- Issue with Qt5?

Guy Barrand: G4 on Android and iOS

- Already applications ready and available on apple store or google play
 - Issues with data files limitation
 - Issues with vis: Only OpenGL-ES available, but Geant4 is on the top of OpenGL

First app: g4exa From the extended/A01 example of 9.3 Rejected by Apple: « we do not want examples/demonstrators, we want apps that does something ». It exists on GooglePlay. Can serve as a template to create your own app! GBarrand, CNRS/INZP3/LAL. 11





Guy Barrand: G4 on Android and iOS

- A huge potential for education/outreach. Astronomers are on the store for long now
- Geant4 being portable on iOS and Android, can help to show the way

Discussion:

Plan to put plots (histograms) in the Qt UI window

Acknowledge Guy's continuing contribution to g4tools

Laurent Garnier: QtDriver status

- No major developments

Other topics:

- The continuing issue with BooleanProcessor and the hope that some work could start soon.
- Thanks to Makoto, RayTracer can now have // world
- During this week, the problem about deprecation of OpenGL by Apple has been raised several times

Apps built using OpenGL and OpenCL will continue to run in macOS 10.14, but these legacy technologies are deprecated in macOS 10.14. Games and graphics-intensive apps that use OpenGL should now adopt Metal.

Usually, apple allow deprecation time is a couple of years before being remove

- How / When migrate from OpenGL to Metal
- Rethinking OpenGL driver? Using a scene graph as Open Inventor?

Other drivers

Thanks to Makoto, RayTracer can now have // world