ESSnuSB WP5
Orsay progresses since Athens
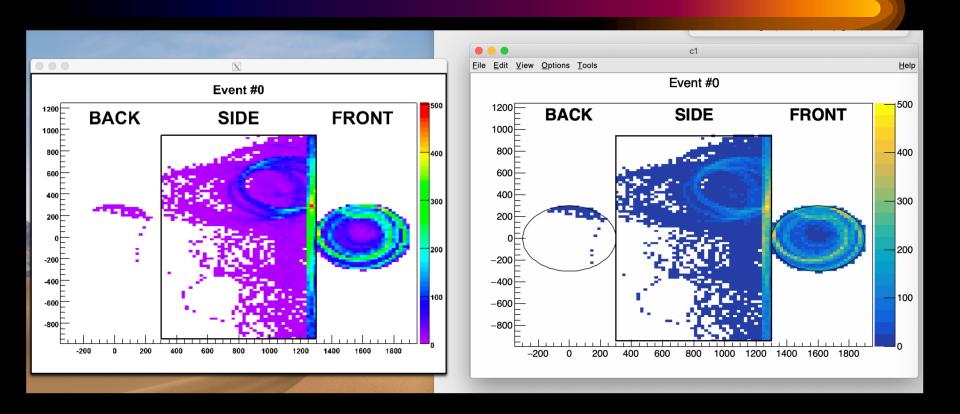
21 March 2019 video meeting

Guy Barrand, CNRS/IN2P3/LAL

- Little package g42fair in gbarrand github to produce media.geo file containing water description taken from MEMPHYS and WCSim DetectorConstruction::ConstructMaterials() methods.

- Work on softinex/inlib/rroot code to read events from the evetest.root file. No resistance for the moment here.

- Have a program that read the EsbWCDetectorPoints from evetest.root and plot them as in EsbRoot/display_event_ND.C.

- Start an event display « EsbRootView » by using softinex tools and reading the evetest.root events. Can draw in 3D the EsbWCDetectorPoints.
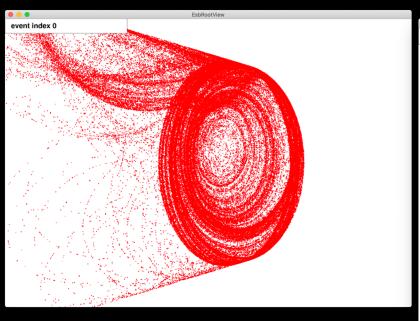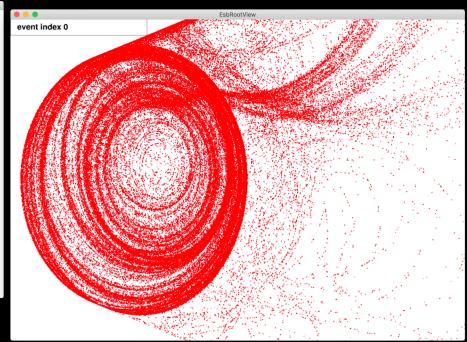
The nice 2D plot...

On the left done with softinex tools, on the right with ROOT. We can have same look and feel (by embarking much, much, much less code on the left). (The colormap is quite not the same, but I can arrage that).

G.Barrand, CNRS/IN2P3/LAL

EsbRootView

- The 147233 EsbWCDetectorPoints of evetest.root:

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Next…

- Improve EsbRootView to see the EsbMCTracks.

- Have the geometry (taken from geo_full.root).

- Have a first release of it on github.

- Have the web version on some LAL/OpenStack virtual machine to see if it is workable through this channel (knowing that it uses WebGL). (This kind of display is intended to run locally, if intented to be for web outreach, we may have to prepare some « light event », disconnect some buttons, have some hard-wired predefined views, etc…)