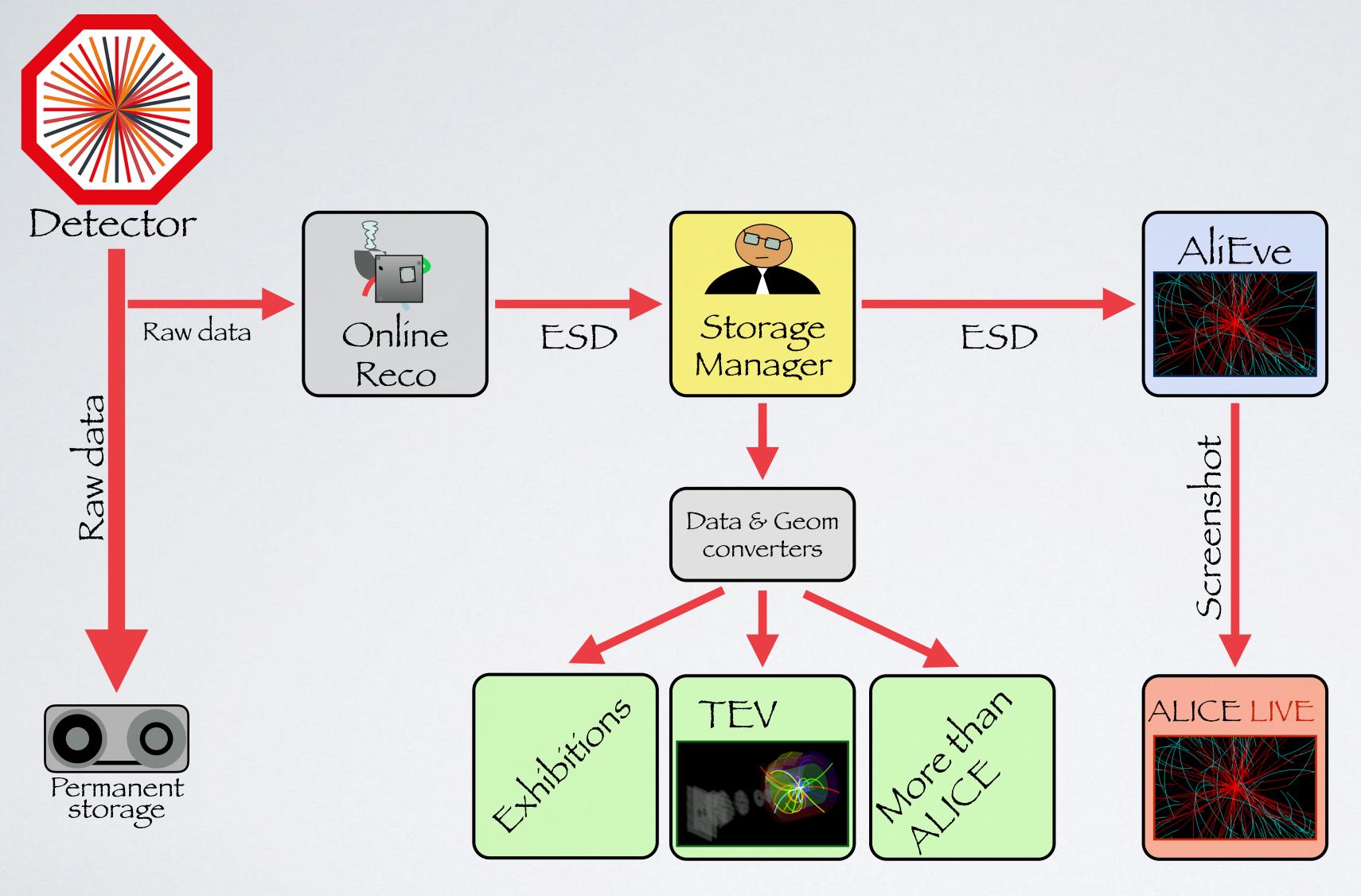
VISUALISATION SYSTEM OF ALICE SHIFTERS TRAINING

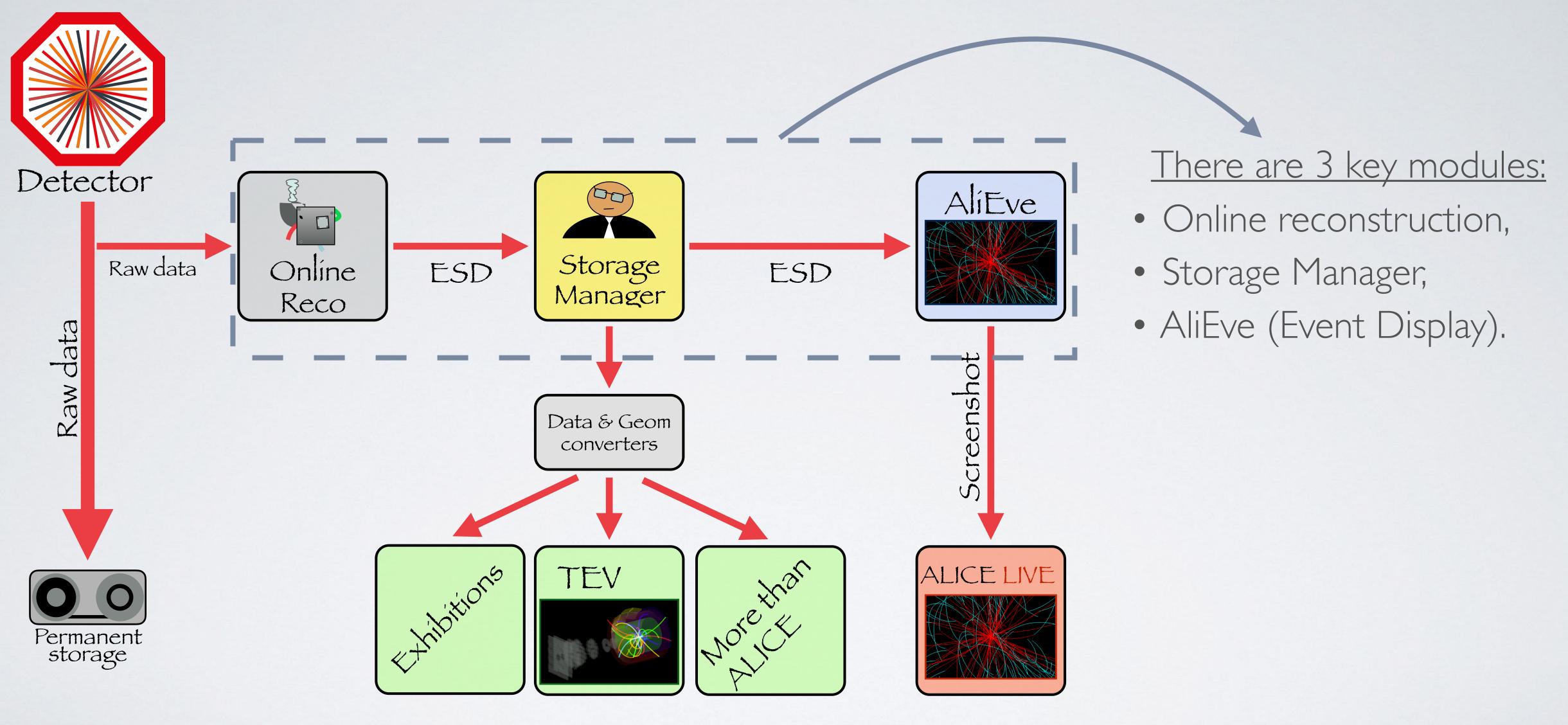
Jeremi Niedziela Warsaw University of Technology, CERN

alice-ed-experts@cern.ch

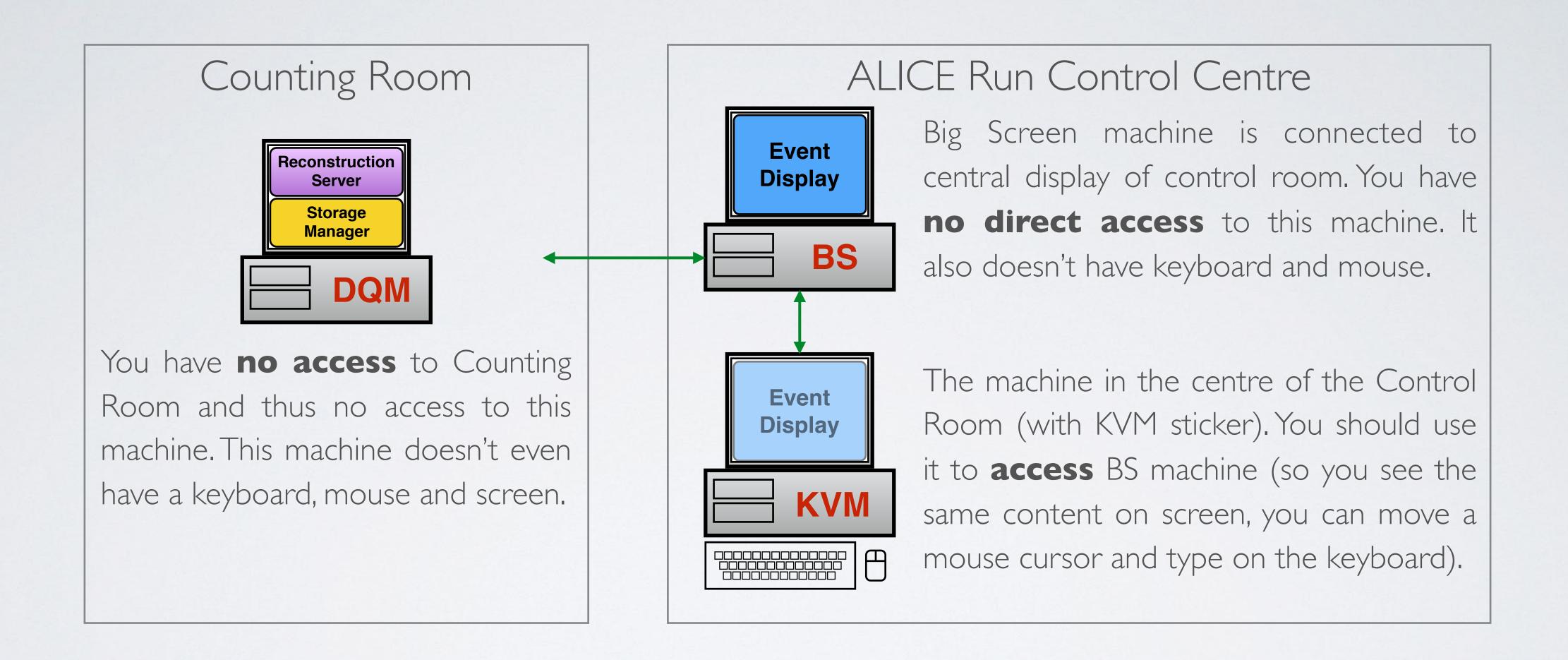
VISUALISATION SYSTEM IN ALICE



VISUALISATION SYSTEM IN ALICE



VISUALISATION SYSTEM IN P2





STORAGE MANAGER

Storage Manager:

- starts/stops online reconstruction,
- collects, stores and distributes reconstructed events,
- communicates with AliEve and other client application (for example TEV).

Shifters responsibilities:

- it starts automatically no need to start,
- there is a watchdog monitoring if Storage Manager is running no need to restart,
- if it gets stuck contact ED experts.



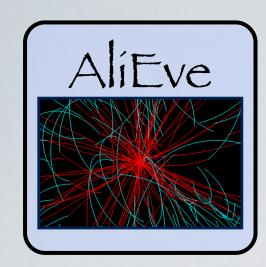
ONLINE RECONSTRUCTION

Online reconstruction:

- takes sample of raw data, reconstructs them and produces ESDs,
- sends ESDs to other modules,
- without reconstruction we cannot see events in AliEve.

Shifters responsibilities:

- automatically started by Storage Manager on SOR no need to start,
- if it crashes or gets stuck contact ED experts.



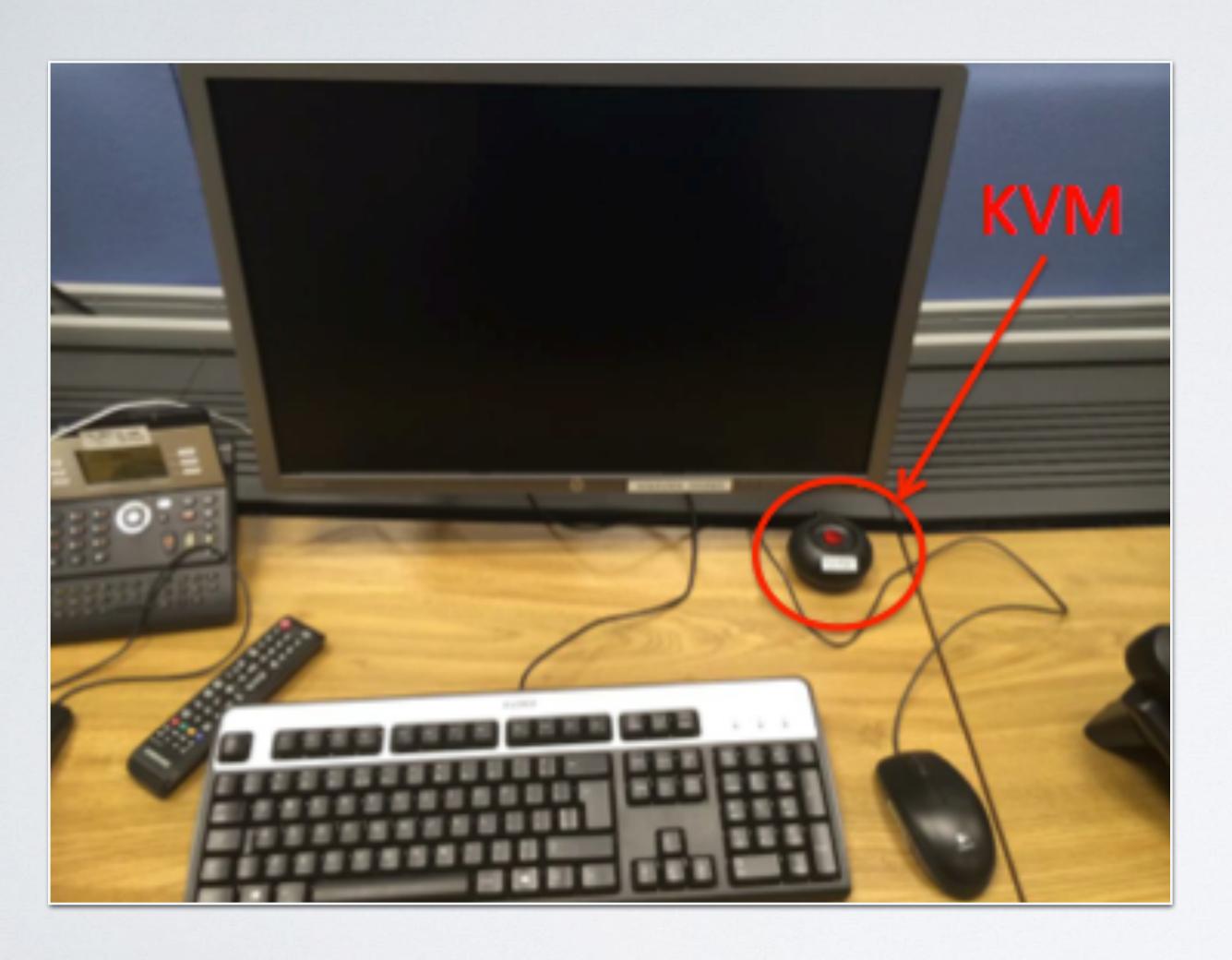
Event Display:

- receives events from Storage Manager and Online Reconstruction,
- visualises detector geometry and reconstructed events.

Shifters responsibilities:

- watchdog will restart AliEve automatically no need to restart,
- if it gets stuck shifter should stop it manually,
- any other problems contact ED experts.

Using KVM

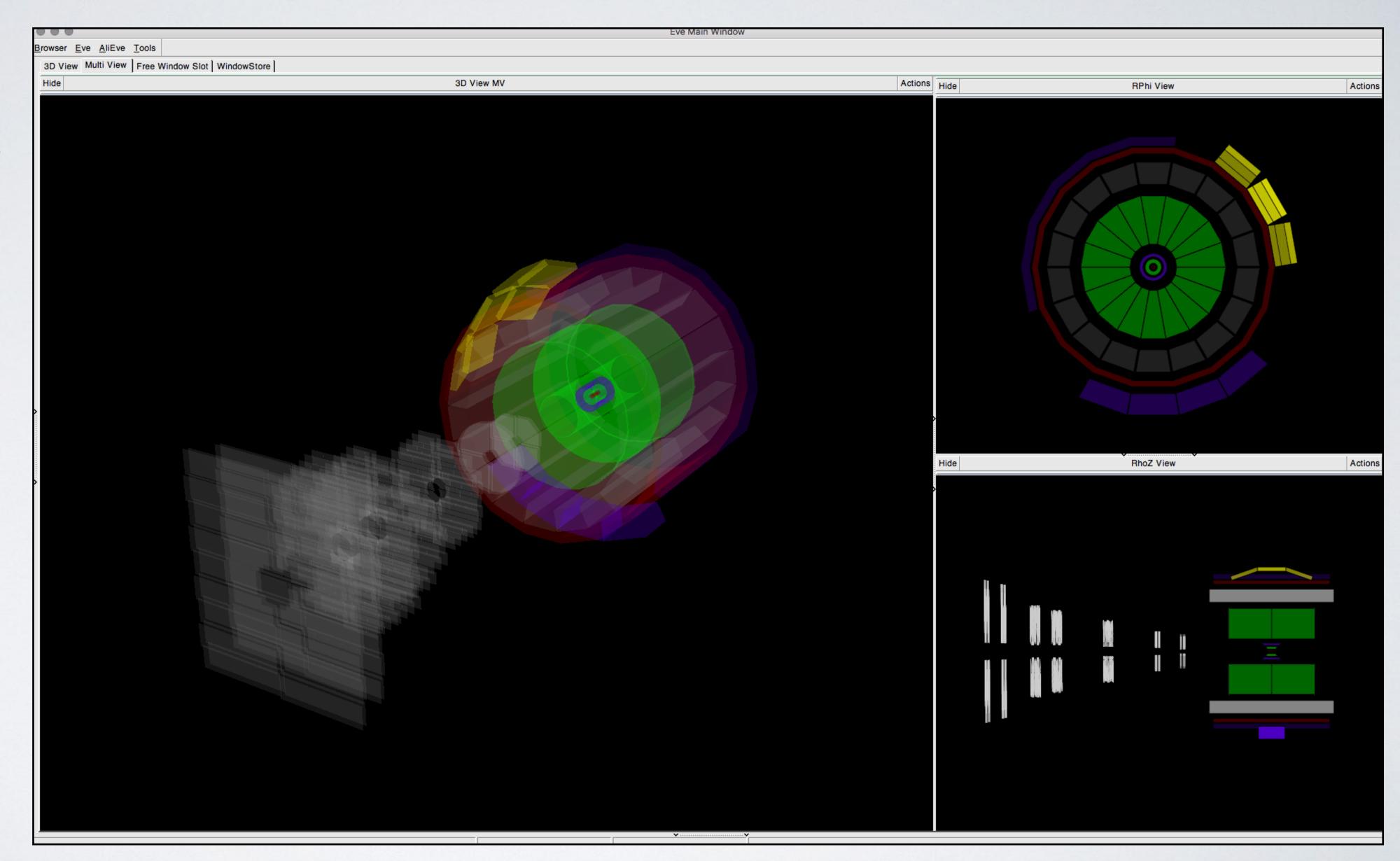


- 1) Turn on KVM machine using red button (marked on the picture).
- 2) Set screen's source to VGA.
- 3) Log in as "ARC".
- 4) Pick machine number 5 (central big screen).



After successful start of Event Display you should see this:

ALIEVE





After successful start of Event Display you should see this:

ALIEVE

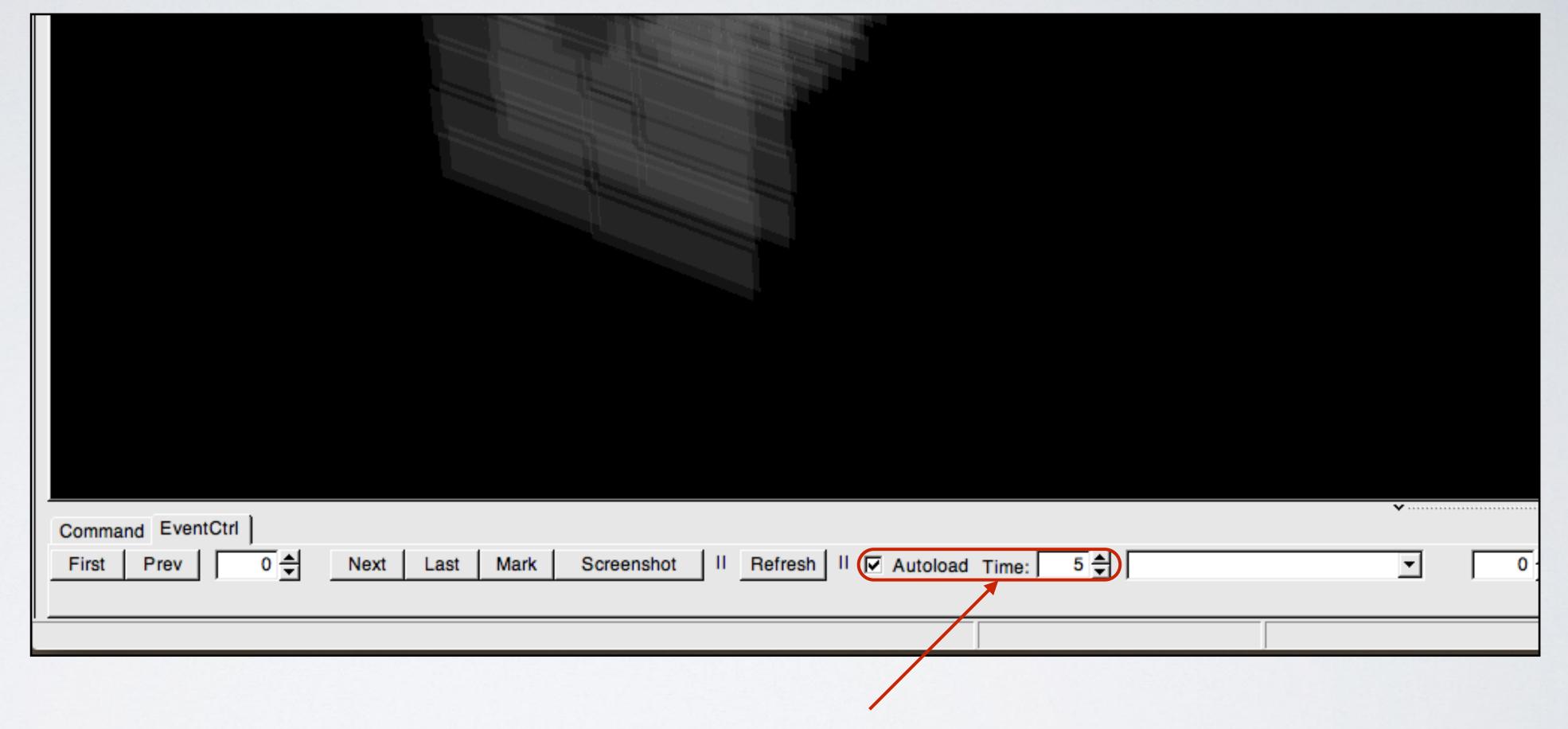


Use slider at the bottom to show navigation menu.



After successful start of Event Display you should see this:

ALIEVE



Start/stop autoload and change autoload time here.

You can also produce a screenshot using "screenshot" button.



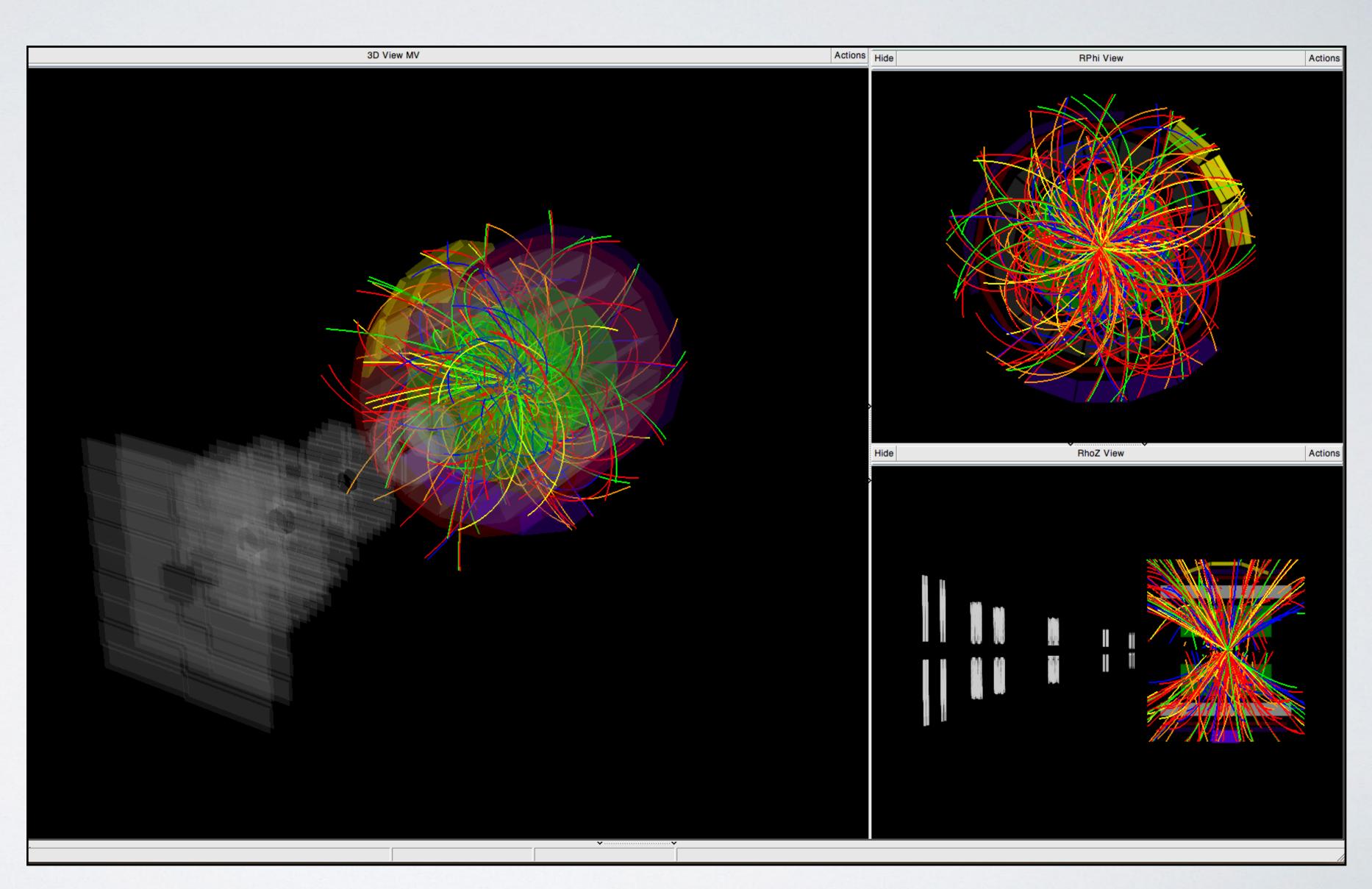
After successful start of Event Display you should see this:



You can change a source of data here. Pick HLT to read events reconstructed by the High Level Trigger. Offline will take reconstructed files for local storage for run number indicated on the left (press "Reload" after changing this number).



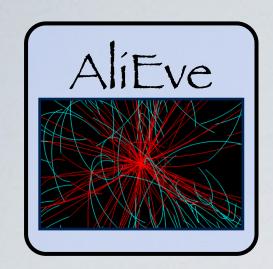
When Online Reconstruction is running, you should see tracks in the detector and they should load automatically each 5 seconds:





If you don't see tracks, check the following:

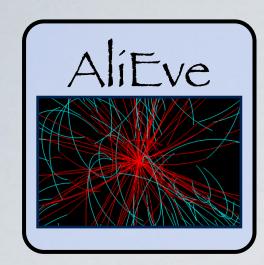
- is there a run in PHYSICS_I partition?
- is TPC or ITS included in the run?
- did the run start more than 5 minutes ago?
- is Event Display frozen?



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Without TPC and ITS we cannot reconstruct tracks (still, we can see for example calorimeter towers).



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none of the above? - contact ED experts

SUMMARY

- 1) Make sure, that Event Display is running. If it cannot load for a long time, or you see it's frozen close the window (or attached to it terminal window) and wait until it restarts automatically.
- 2) Observe Event Display to determine status of whole system. If you suspect something does not work properly contact experts!
- 3) Be patient crashed module will be restarted after one minute, initialisation of it may take 2-3 minutes give it a bit of time.

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