Visualization of SciFiClusters in Panoramix

06 / 04 / 2014

- New algorithms added to the package **Vis/SoEvent** to "integrate" the new BGV SciFi classes with Panoramix
  - Now can use **Object_visualize(<LHCb::SciFiCluster>)** (or click on the ScFiClusters TES location on the Panoramix GUI)
  - Get info printout when a cluster is selected (with the mouse)
- Get the package **Vis/SoEvent** from here:

  /afs/cern.ch/work/p/phopchev/public/BGVPano/
- copy it to **~/cmtuser/Panoramix_v22r0**
- The last step is to compile it, but don't do it yet

The following updates were necessary to the BGV SW components

- **BGV xml geometry**: created v1r16 with changed DetElement ClassID values
- **SciFi/SciFiDet**: use the new ClassIDs
- **SciFi/SciFiEvent**: New SciFiCluster ClassID
- These latest versions are needed in order to use the visualization features
- The latest geometry: **/afs/cern.ch/work/p/phopchev/public/BGVGeo**
- The latest SciFi digi packages: **/afs/cern.ch/work/p/phopchev/public/BGVDigi**
  - Get them to **∼/cmtuser/Panoramix_v22r0** and compile them
- Finally, compile the **Vis/SoEvent** package

To run Panoramix with GUI:

- Open a new shell, login script, SetupProject
- Run a command similar to this:
  /afs/cern.ch/work/p/phopchev/public/BGVExamples/pano_run_vis.sh
  - As input data file can use this:
    /afs/cern.ch/work/p/phopchev/public/BGVDigi/DigiSamples/raw-sim1r0-geo1r16-100ev.digi
  - Geometry $\geq$ v1r16 should be used (see **DDDB_custom.py**)