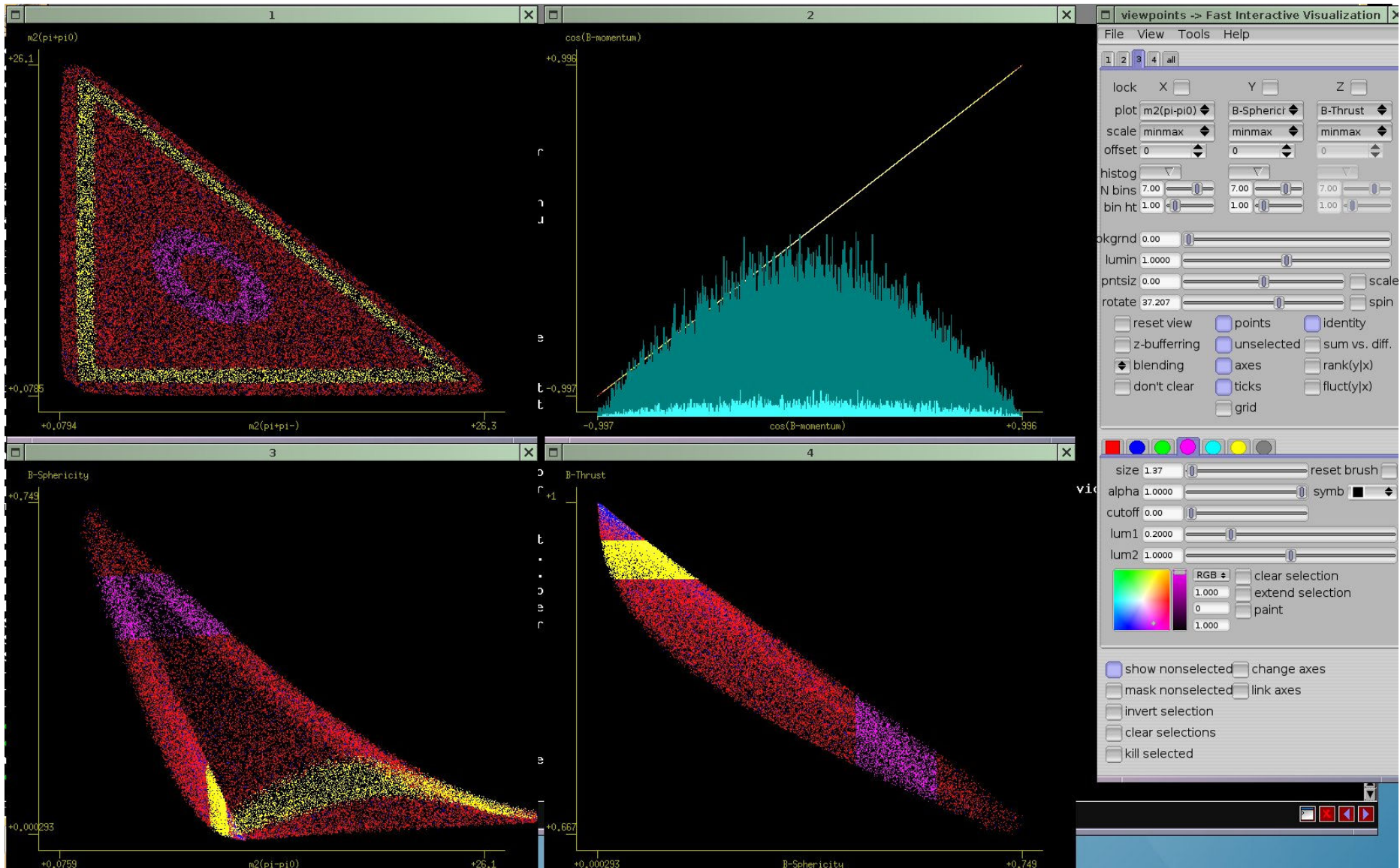# GUI plans of work

- Revisit (reimplement) a **new TreeViewer**, possibly based on something like Viewpoints (see next slide) (http://www.slac.stanford.edu/~bellis/viewpoints_demo.html) - also as a plug-in for the Browser. Full new development, to be investigated, probably quite a big task. (N.B. Keep - and possibly improve - the actual TreeViewer) Medium priority, 8 weeks

- Interactive (bi-directional) **GUI in remote sessions**. Requires implementation of full client-server communication, to be able to use a remote session as much as possible like a local session. High priority, 8 weeks

- Complete review of **Proof Session Viewer**/**Manager**, following the changes in Proof/ProofLite. As the GUI didn't follow the development of Proof, many parts have to be review and possibly rewritten (to be investigated). High priority, 2 weeks

# Viewpoints screenshot

# GUI, GUIHtml

- Add **StressGUI** in $(ROOTSYS)/test (code coverage!) High priority, 1 week

- **Dynamic (contextual) help** using THtml/TGHtml. Investigate the possibility to dynamically generate html help and display it in the TGHtmlBrowser (e.g. when browsing the ROOT classes in the new Browser) Medium priority, waiting for help in Root format?

- **Syntax highlighting** in text editor widget (related to the previous point) Medium priority, 4 weeks

- Process some remaining issues still in the **GUI todo list**, as for example (non exhaustive list):
  - Keyboard navigation in TGComboBox
  - Possibility to set cursors with a user defined shape
  - When changing the font size, the layout of several widgets is bad
  - …

# GUI Builder

- Continue improvements in the look and feel and in the robustness introduced by the last summer student

- Add missing widgets, as for example:
  - Tool bars
  - Menu bars
  - Sliders
  - Splitters
  - TGPack
  - …

No time estimation here, as this can be done during small gaps between other tasks

# Windows

- **ProofLite**. To be done in coordination with PROOF team (Gerri). Some issues still have to be solved, like package management. Too Unix-oriented implementation (e.g. no "tar" on Windows) High priority, 4 weeks

- **Xrootd authentication**. Tests have to be performed in coordination with xrootd team (Gerri - again). And as LHCb is not asking for it anymore, not to much time/energy investment will be done in this process anymore. Low priority

- **Dual screen support**. This has to be fully implemented in gdk & TGWin32, and requires very low-level changes. High priority, since it is on my todo list (and in Savannah) since too long time now. 6 weeks

# Windows (cont.)

- **Syntax highlighting** (editline/ncurses) in command prompt to have the same functionality / look and feel on Windows than other platforms. <span style="color:red">Low priority, 2 weeks</span>

- Investigate usage of **Direct2D** implementation of gdk. Direct2D is using accelerated hardware (like OpenGL). Quoting MSDN: "Direct2D is a brand new 2D graphics API designed to support the most demanding and visually rich desktop applications with the best possible performance". This is <span style="color:red">low priority</span>, but important to investigate for the future

# Documentation / Drupal pages

- Installation on Windows
- How to create MSVC++ solutions for applications using ROOT
- Nmake makefiles
- Embedding TCanvas in a MFC application
- FAQ
- How-to

# Other / Misc.

- Help to port CMS Event Display (Fireworks) on Windows