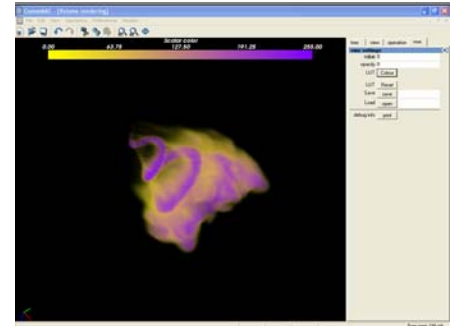


Data Mining and Visualization Session

DS-3:

We are not going to do algorithmic research, we just must render “VO-effective” existing stuff.

Good: but much work is needed to implement existing stuff into V.O.



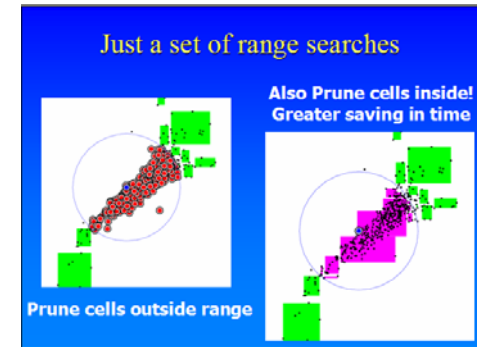
Strong need for standardization of I/O

- Many formats are available (VO-Table, HDF, FITS, etc.) . Need for input from the theoretical VO Group (STIL, TOPCAT, may be a solution..)
- Built in or through conversion (plugged in Data Extraction engines)?
- Choice of pixelization scheme (HEALpix, IGLOO, etc.).
- Proper choice of standards is also crucial to import applications from other fields

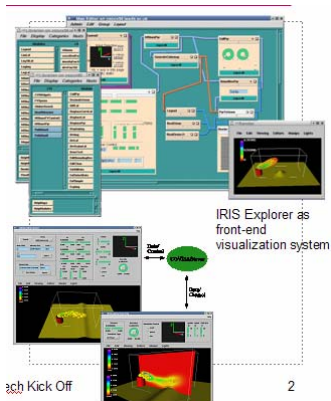
Data Mining and Visualization Session

Hot issues

1. Interest in “good enough” searches/answers” discussed by Nichol (relevant for the VO M.D.S.)
2. Compression algorithms (for data transfer but also for visualization and parameter space dimensionality reduction). Need of an interface within or outside VO.
3. Taylor’s agents. Need to evaluate on practical applications (DS5/6) topic of research and evaluation. Need to spread the “word” within the community (documents repository).



4. Need to define standards for software development which take into account learning curve, stability, commercial availability, maintenance, ... open source seems to be preferable



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Scientific cases needed

1. Good sound case with template “truth”

We need a “census” of what is available and of how easy it is to adapt it within V.O.

Open a forum within community to select most suitable scientific test cases and relative data sets (also GRID whenever needed)

