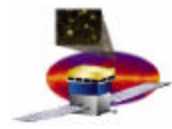


# **Other High-Level Databases**

**S. W. Digel (SU/HEPL) for the SSC-LAT Working Group**

**SSC-LAT Science Tools Workshop**

**June 12-14, 2002, SLAC**

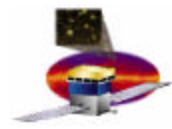


# Plan of the talk

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- **Highlight some relatively poorly defined aspects of the standard analysis environment that were glossed over yesterday**
- **For details see the requirements summaries at [http://www-glast.slac.stanford.edu/ScienceTools/tool\\_defs](http://www-glast.slac.stanford.edu/ScienceTools/tool_defs)**
- **Advertising for the databases and interstellar emission model breakout sessions this afternoon**

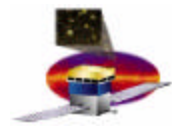




# Rundown

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- **Pointing/livetime history (D2)**
  - Access by time range only – a runt database
- **Point source catalog (D3)**
  - Note that we will likely have a ‘release’ version, and a working version (the next release in progress) outside of the standard analysis environment
  - Contents of 3EG catalog entries is 0<sup>th</sup> order guess, but will be better able to quantify time histories; other additional contents TBD
- **Astronomical catalogs (D4)**
  - This includes GLAST-specific catalogs, like for GRBs & blazar transient alerts
  - Externally-hosted catalogs, like the NASA Extragalactic Database (<http://ned.ipac.caltech.edu>) also belong in this category
  - [Outside of the standard analysis environment it will have some additional members, including something that might be called a catalog of source detections that would be used to decide whether we had detected a source before and whether its flux had changed.]



# Rundown 2

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- **Pulsar ephemerides (D5)**
  - Sensible definitions can be inherited from EGRET with slight modifications
  - Also a runt database, even if want to search by coordinates of pulsar
- **Instrument response functions (D6)**
  - See talk by Dave Davis
- **Interstellar emission model (A8)**
  - The model will have some adjustable parameters (although not necessarily the same as EGRET's GMULT & GBIAS)
  - One concept is for the model to be a 'library' of components, e.g., for separate emission processes or for cosmic-ray densities to be maintained separately from ISM and radiation field
  - Gridding, coordinate projection of the model will have to be considered