<table>
<thead>
<tr>
<th>Day</th>
<th>‘Morning’ topics</th>
<th>‘Afternoon’ topics</th>
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<tr>
<td>1</td>
<td>• Overview &amp; introductions</td>
<td>Dubois/Digel</td>
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<td></td>
<td>• Science (tools) requirements</td>
<td>Digel?</td>
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<td>• Processing flow</td>
<td>Williams</td>
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<td></td>
<td>• Science Support Center</td>
<td>Band/Norris</td>
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<td></td>
<td></td>
<td>• Algorithms <em>(possibly multi-afternoon)</em></td>
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<tr>
<td>2</td>
<td>• Review EGRET analysis system</td>
<td>Nolan</td>
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<td>• LAT Science Tools development</td>
<td>Digel</td>
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<td>• Interstellar emission model</td>
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<tr>
<td>3</td>
<td>• Data formats: FITS, Root, XDF?</td>
<td>?</td>
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<td></td>
<td>• Databases</td>
<td>Nolan, Schalk?, SSC</td>
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<tr>
<td>4</td>
<td>• Instrument Response Functions</td>
<td>Madejski?</td>
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<td>• Software development infrastructure</td>
<td>Dubois</td>
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<td>• PDR readiness: Science tools</td>
<td>Digel?</td>
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<td></td>
<td>• Wrap-up</td>
<td>Dubois</td>
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If enough interest warrants, additional topics can be added as parallel meetings for the afternoon sessions. Potential additional topics include the user environment for the analysis system and the contents and use of the non-event data packets at Level 0.

**Details: Morning sessions**

**Day 1**  
**Overview & introductions**  
Goals for week: define scope of Science Tools and development effort, plus discussions of important early considerations  
Introductions – by person or institution

**Science (tools) requirements**  
Not ‘SRD’, which is really a misnamed instrument performance spec.  
Analysis needs guide software development – some details  
Analysis modules  
Observation simulation  
Interstellar emission model

**Processing flow**  
Macro: S/C-GN-MOC-IOC (DPF)-SSC  
Level 0-Level 0.5-Level 1-Level 2 – what are they?

**Science Support Center**  
Who, what, and when  
Staffing, funding
HEASARC

Day 2  *EGRET analysis system*
   Compare and contrast
   Source detection
   Spectral analysis

*LAT Science Tools development*
   Current plan – under development
   Organization by subject
   Who does what? w/ SSC – ‘core’ tools?
   Schedule – external and internal milestones
   Level 0 Ambassador

Day 3  *Data formats*
   FITS, Root, XDF (FITSML)?
   What, where, and why?

*Databases*
   Requirements - performance, mirror-ability, etc.
   Possible implementations – Event, exposure, source catalog,…
   Event summary v. Photon summary databases

Day 4  *Instrument response functions*
   What are they used for and how do we find them?
   With what detail do they need to be specified?
   CALDB

*Science Tools development infrastructure*
   Inherit from Sim/Recon
   Gaudi
   Display?
   Coding, documentation rules
   Testing

*PDR Readiness*
   Science tools in PDR report
   Processing flow in PDR report
   FTEs in PDR report?

Wrap-up
   What progress did we make?

Details: Afternoon sessions

Day 1  *Algorithms*
For any analysis topic, as interests dictate, e.g.:
Source detection (aka likelihood analysis) - Unbinned vs. binned, wavelet
Need ‘standalone’ spectroscopy?
GRB trigger
Methods for extended sources: user-defined models, nonparametric

analysis

Day 2  Interstellar emission model
Update of working group, status
Working group session

Day 3

Bonus  Level 0 data requirements
Beyond the event packets
What kinds of packets are there?
What requirements do the Science Tools impose?
How will the information be used?

User environment options
Command line, graphical (Web?), plotting, image display