Calibration Software

What’s Next?

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What’s Missing?

Part 1 (of 2)

1. Multi-tower support.

2. Threshold calibrations.

3. Integration w/ I & T pipeline.

4. Documentation / doxygen.

5. Improved test apps.
Multi-tower Support


2. `calibGenCAL merge separate measurements`?
   - `merge XML files`?

3. Indexing more complicated.
Integration w/ I & T pipeline.

1. Less editing of config files
   - read **UDF** headers, etc...

2. “One script to rule them all?”
   - several steps
   - order will get more complicated
What’s Next?
Part 2 (of 3)

1. FLE cross-talk & other voodoo.
   - ask Sasha!

2. Flight \textit{like} calibrations.
   - scaled from muon calib.

3. Independent position in Cal Recon

4. Updates to Recon data structures
   - at \texttt{xtal} level
Independent position in CalRecon

Trumpet plot goes here.

1) Pos. is *poor* function of *asymmetry*.

2) Also for *dead channels*, low signal.
# Recon Data Structures

<table>
<thead>
<tr>
<th>Old Fields</th>
<th>New Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) enePOS</td>
<td>1) Single energy</td>
</tr>
<tr>
<td>2) eneNEG</td>
<td>2) Asymmetry</td>
</tr>
<tr>
<td>3) Position</td>
<td>3) position</td>
</tr>
<tr>
<td>4) Multiple range</td>
<td>4) single range estimate</td>
</tr>
<tr>
<td></td>
<td>estimate (default)</td>
</tr>
<tr>
<td>range estimates</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5) Method flags</td>
</tr>
<tr>
<td></td>
<td>6) More COLORS!</td>
</tr>
</tbody>
</table>
Xtal Recon Method Flags

1. Records decisions made by Cal Xtal Response

2. 32-bit bit-field?
   - leave some for posterity

Fields:
1) range/ readout(s) used
2) Faces used.
3) Faces below threshold
4) Xtal below threshold, valid est?
5) External position used?
6) Others?
What do we (Zach/NRL) need?

Part 3 (of 3)

1. Wish we new more about I & T environment.
   - file locations
   - scripting langs?