EMC Reco Software

• issues
• time line
• open questions / tasks
Issues - 14 series

14 series == beta and/or tuple level == this summer analysis:
Plan: No changes to EMC reco in 14 series

- edge correction: recipe by Aaron
- split off: recipe by Debbie
- position correction: ?
- DRC preshower: not possible on micro
Issues – 15 series

15 series = next reprocessing

Plan: move corrections from beta to reco level
Deadline: early August (deadline for 16 is ~ early September)

- cluster radial pos: this will potentially brake many existing algorithms!
  - bump splitting: needs to be revisited!
  - bhabha calib: needs new MC predictions?
  - PID: needs new likelihoods/cuts or rescale shower shapes to old distributions (Who?)
  - projectivity corr.: revisit
- position correction: Who? Calibrator/CondDB
- edge correction: Is this ready? Who? “
- split offs: Debbie?
- DRC preshower: Is it really working?
- EmcPidInfoK: Persist trk-bmp matching? Persist split-off-ness?
- rolling bhabhas: Who? Needs Hot Xtal list?
# Time Line – 15 series stuff

<table>
<thead>
<tr>
<th>Task</th>
<th>June</th>
<th>July</th>
<th>August</th>
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<tbody>
<tr>
<td>Radial Clus Pos</td>
<td>in rel (rel 15.0.1)</td>
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<tr>
<td>Trk-Bmp Matching</td>
<td>get min. coeff.</td>
<td>chk w/o p</td>
<td>impl. new params (w/ or w/o p)</td>
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<tr>
<td>Cluster Splitting</td>
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<tr>
<td>with new bump pos</td>
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<tr>
<td>Pos/PosRes Corr</td>
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<tr>
<td>DRC Pre-shower</td>
<td>study on CM2</td>
<td>persistence: what? How?</td>
<td>modify DRC reco</td>
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<tr>
<td>Edge Corr</td>
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<td>Splitt Offs</td>
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<tr>
<td>Rolling bhabha calib</td>
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<tr>
<td>persistent EmcPidCalib</td>
<td>what goes in? trk-bmp? drc? split offs?</td>
<td>code</td>
<td>test write / read</td>
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<tr>
<td>Correlations between pos/energy corrs</td>
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Open Questions

- What can we achieve, what not?

- Since the new radial cluster position will go into the 16 series, clearly every implication this change has needs to be understood and maybe fixed.

- Everything that needs a schema-evolution, i.e. change of persistent data/objects has a hard deadline in August.

- Is the same true for all calibration changes? In principle this is done at micro-level, however, it has implications on skimming and Ntuple production.

- What else?