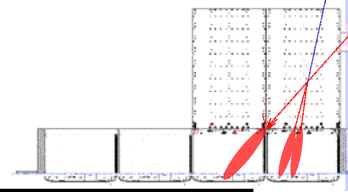




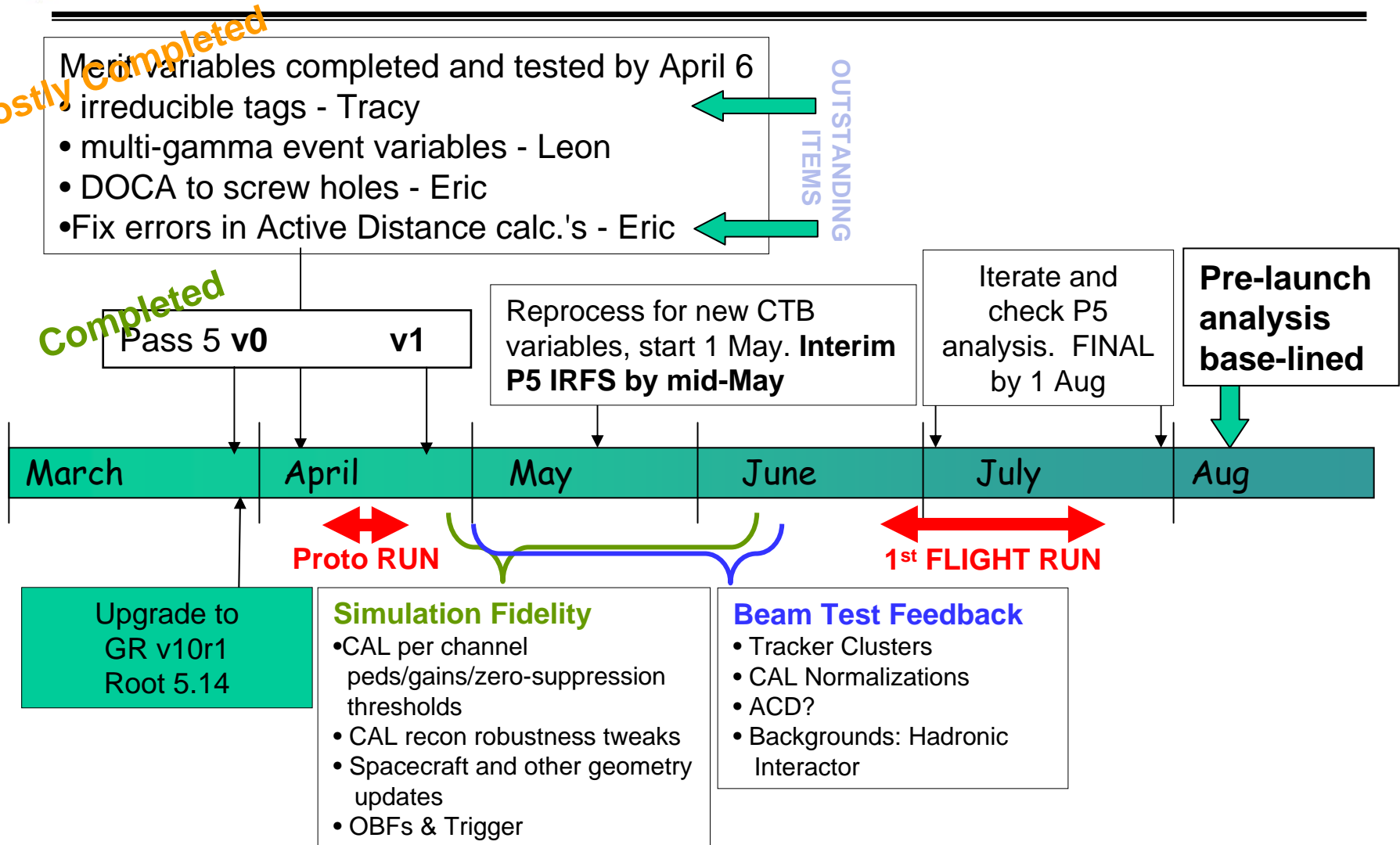
Expected Outcomes



- ☐ New TKR digitization algorithm for MIP and ions
- ☐ New CAL calibration procedure for the LAT
- ☐ Detector model material review
 - **W thickness**
 - **Honeycomb**
 - **Interfaces (glues, CF mechanics ...)**
- ☐ Elements for on-orbit calibration of CAL and ACD
- ☐ Improved hadronic physics list
- ☐ BT data available for testing different algorithms (E recon, trigger)
- ☐ Timeline for changes coordinated with C&A group
 - **Envisage several iterations**
 - **Should provide final implementations by end of may**



Updated Performance Update Timeline

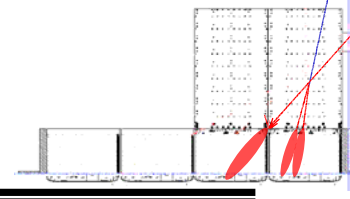


Proto RUN: 2-3B bkg. events, plus AG and diffuse

1st Flight RUN: 20-50B bkg. events plus AG and diffuse



Schedule Proposal



- ☐ First delivery by end of april
 - test on BT data
 - support flow to C&A from beginning of may
- ☐ Second iteration by mid june

All tasks are equally important in this list
- ☐ Do not leave analysis behind

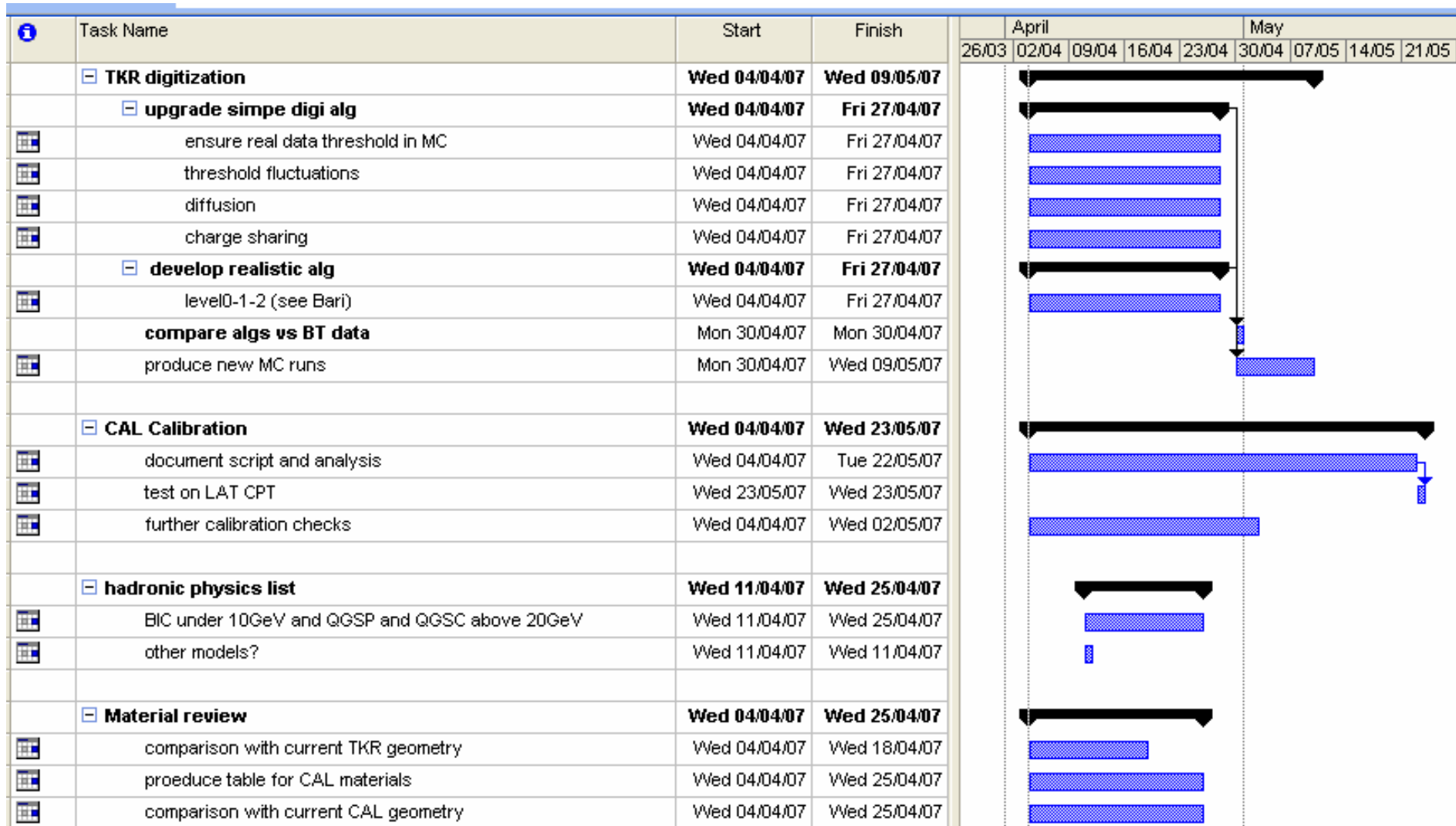
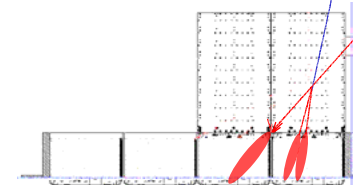
1. New TKR digitization algorithm for MIP and ions
2. New CAL calibration procedure for the LAT
3. Revised hadronic physics list
4. Material review

deliver by end of april

5. TKR hit deficit analysis
6. CAL energy scale analysis
7. Background studies
8. Analysis with CT variables

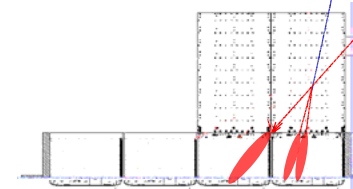


Deliverables breakdown





Analysis tasks breakdown



☐ TKR hit excess analysis

- Quantify TKR discrepancy effect on PSF and E measurement
- extend PSF to high energy e^-
- evaluate systematics induced at low E

☐ CAL energy scale issue

- reprocess with last calibrations
- evaluate average correction factor
- quantify configurations differences (angle, twr1)
- reanalyze extra material
- check TKR hits with extra material

background studies

Test GcrCalib on GSI data

☐ CT variables

- applicability of LAT CT variables to CU
- new beam parameters for MC
- new MC runs
- build a BT CT
- PSF with CTBCore
- CAL recon with CT