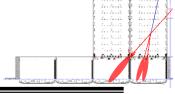


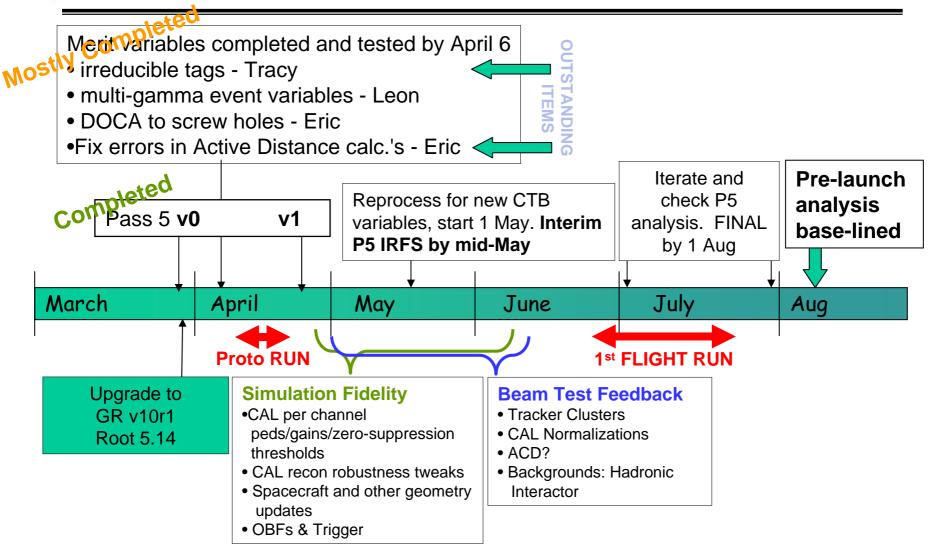
Expected Outcomes



- ☐ 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

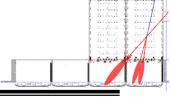


Proto RUN: 2-3B bkg. events, plus AG and diffuse

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

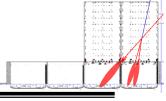
- Do not leave analysis behind
- 1. New TKR digitization algorithm for MIP and ions
- 2. New CAL calibration procedure for the LAT
- 3. Revised hadronic physics list
- 4. Material review

deliver by end of april

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



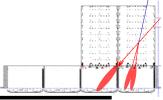
Deliverables breakdown



				l and
0	Task Name	Start	Finish	April May 26/03 02/04 09/04 16/04 23/04 30/04 07/05 14/05 21/0
	☐ TKR digitization	Wed 04/04/07	Wed 09/05/07	V
	☐ upgrade simpe digi alg	Wed 04/04/07	Fri 27/04/07	↓
H	ensure real data threshold in MC	VVed 04/04/07	Fri 27/04/07	
	threshold fluctuations	Wed 04/04/07	Fri 27/04/07	
H	diffusion	VVed 04/04/07	Fri 27/04/07	
TT.	charge sharing	Wed 04/04/07	Fri 27/04/07	
	☐ develop realistic alg	Wed 04/04/07	Fri 27/04/07	↓
⊞	level0-1-2 (see Bari)	Wed 04/04/07	Fri 27/04/07	
	compare algs vs BT data	Mon 30/04/07	Mon 30/04/07	Ĭ
III	produce new MC runs	Mon 30/04/07	Wed 09/05/07	
	☐ CAL Calibration	Wed 04/04/07	Wed 23/05/07	
Ti	document script and analysis	Wed 04/04/07	Tue 22/05/07	
TI.	test on LAT CPT	Wed 23/05/07	Wed 23/05/07	Ĭ
III	further calibration checks	Wed 04/04/07	Wed 02/05/07	
	⊟ hadronic physics list	Wed 11/04/07	Wed 25/04/07	─
111	BIC under 10GeV and QGSP and QGSC above 20GeV	Wed 11/04/07	Wed 25/04/07	
III	other models?	Wed 11/04/07	Wed 11/04/07	
	☐ Material review	Wed 04/04/07	Wed 25/04/07	↓
Ti	comparison with current TKR geometry	Wed 04/04/07	VVed 18/04/07	
	proeduce table for CAL materials	Wed 04/04/07	Wed 25/04/07	
111	comparison with current CAL geometry	Wed 04/04/07	Wed 25/04/07	



Analysis tasks breakdown



∃ TKR I	hit excess analysis
(Quantify TKR discrepancy effect on PSF and E measurement
6	extend PSF to high energy e?
6	evaluate systematics induced at low E
CAL	energy scale issue
1	reprocess with last calibrations
6	evaluate average correction factor
(quantify configurations differences (angle, twr1)
ı	eanalize extra material
(check TKR hits with extra material
back	ground studies
	0.00
lest	GcrCalib on GSI data
∃ CT va	ariables
8	applicability of LAT CT variables to CU
Г	new beam parameters for MC
Г	new MC runs
ŀ	ouild a BT CT
F	PSF with CTBCore
(CAL recon with CT