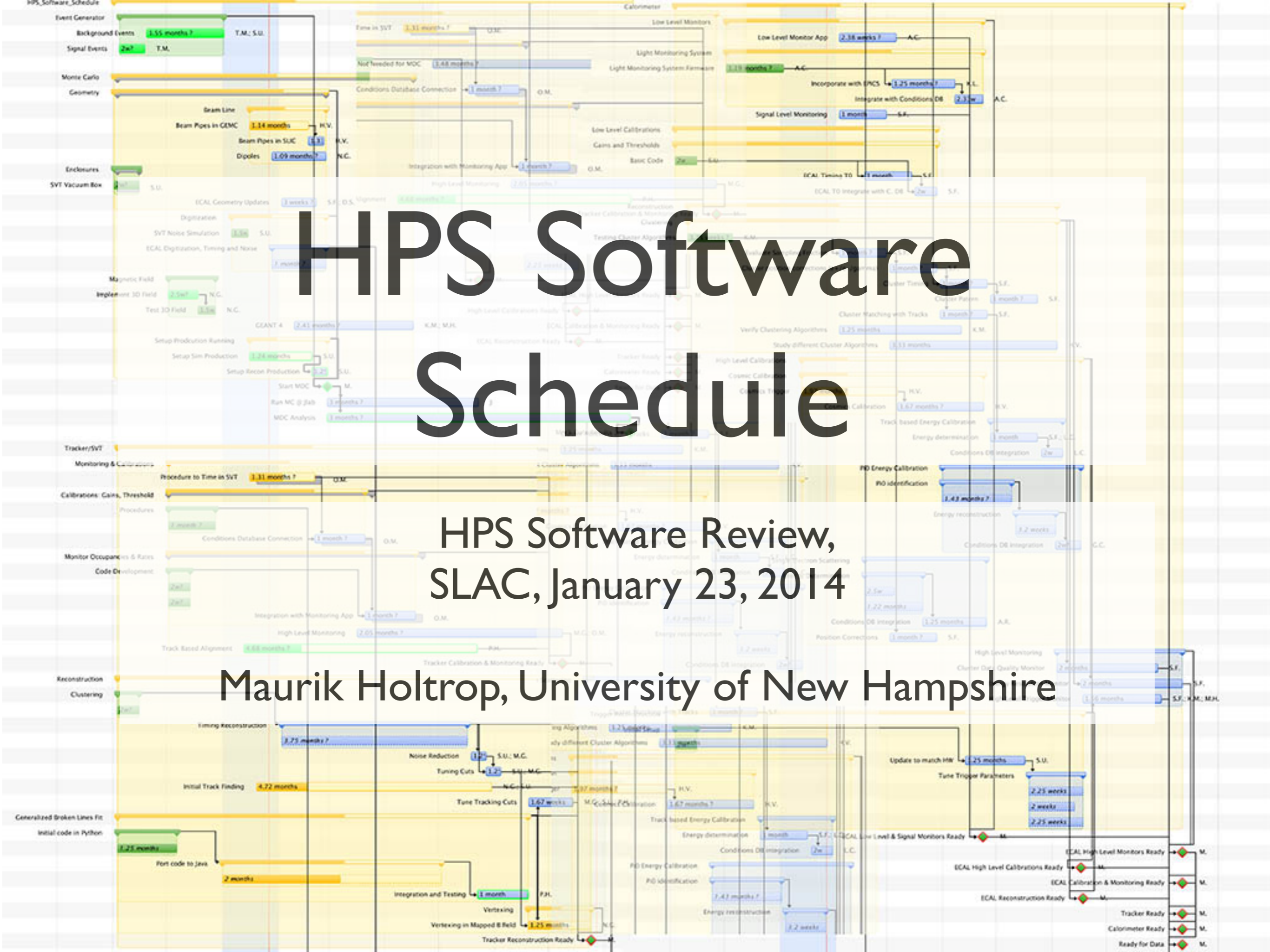


HPS Software Schedule

HPS Software Review,
SLAC, January 23, 2014

Maurik Holtrop, University of New Hampshire



Scheduling...

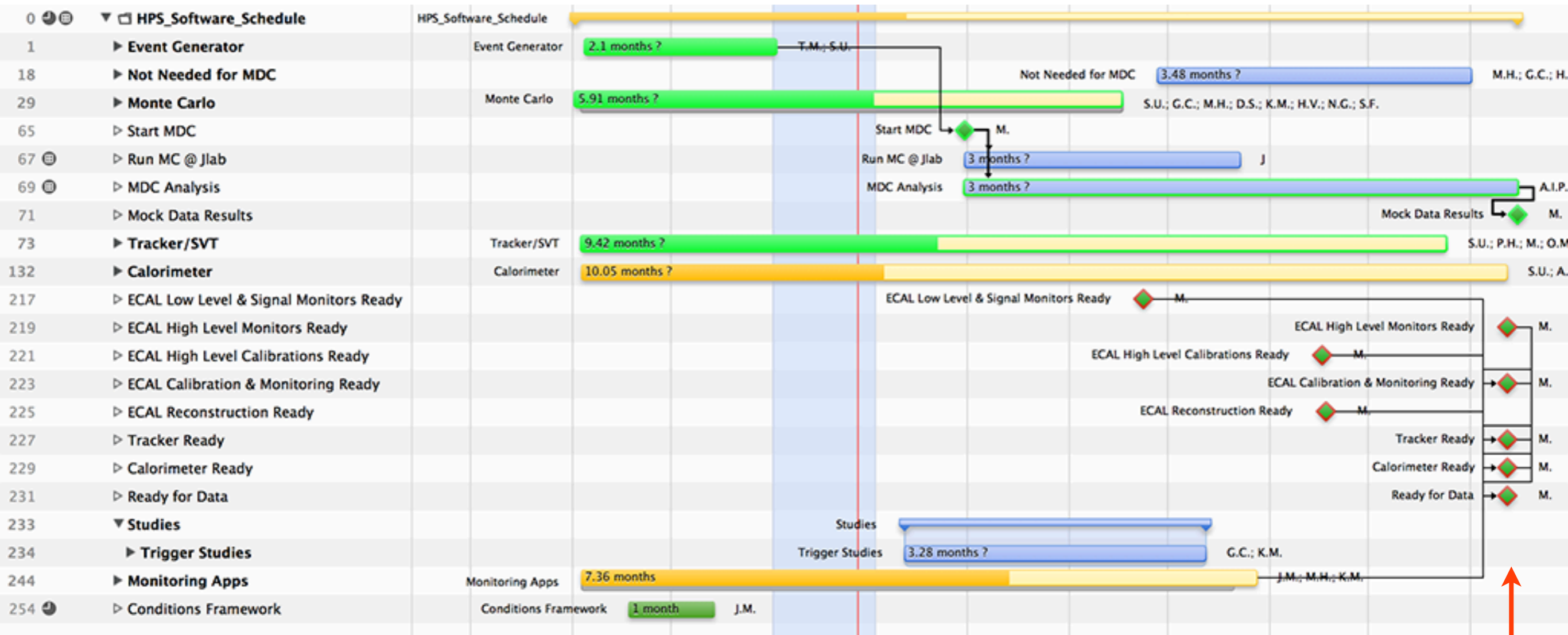
- With software it can be difficult to determine ahead of time how long a particular task will take a particular person to accomplish.
- Many assumptions were made about how many hours a task would take, most of them are simple guesses.
- Extra time was allocated on many tasks for float.
- Person availability for software is not always clear or realistic.
- Some tasks still need to be split off to other (new) members.
- Schedule will be continuously updated with new input.

HPS Software Schedule

- New schedule started this month.
- Now will be updated regularly.
- Will require regular feedback, through software meeting.
- Live version available on Web:
http://nuclear.unh.edu/HPS/HPS_Software_Schedule/

Schedule

http://nuclear.unh.edu/HPS/HPS_Software_Schedule/



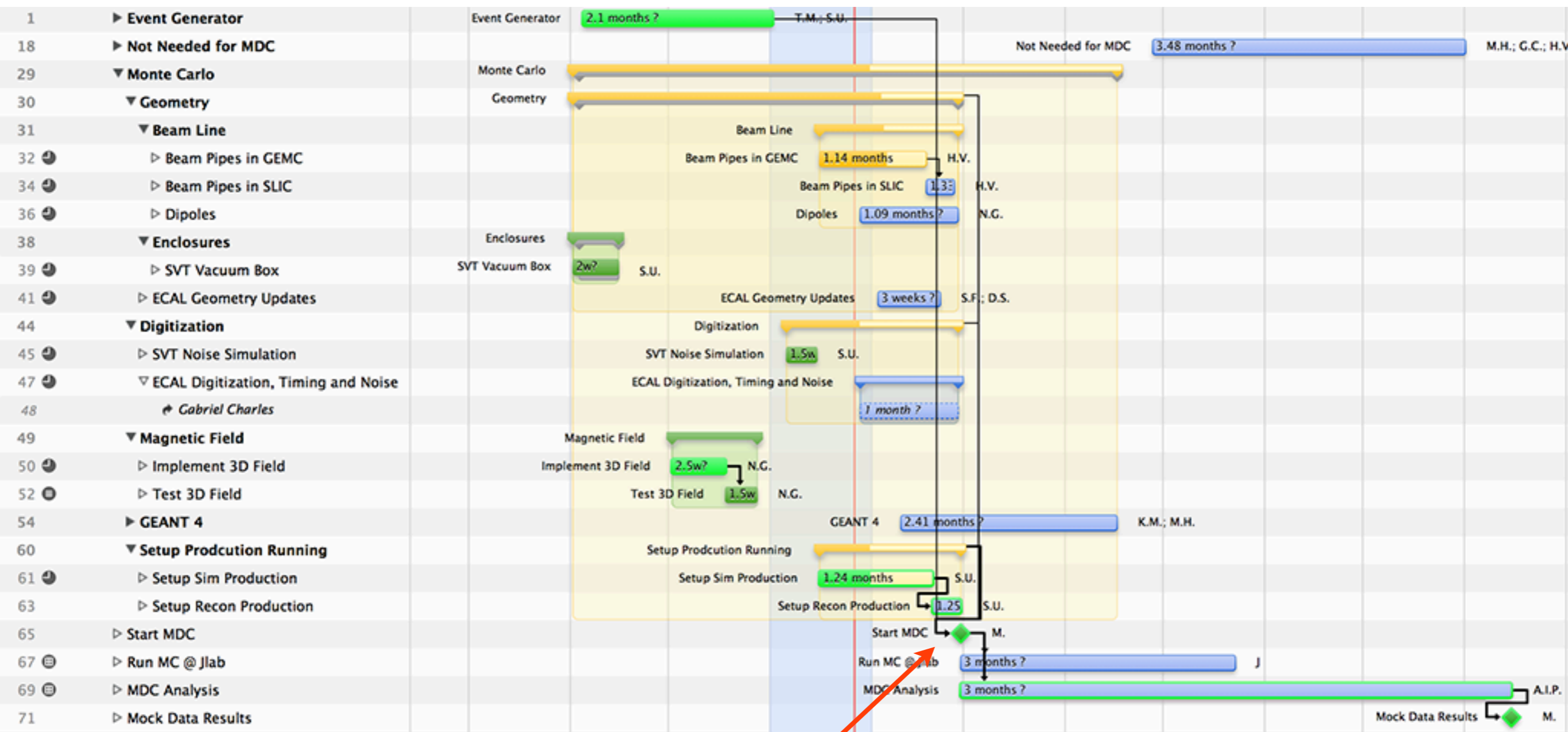
We want to keep these miles stones!

Data Ready: August 11, 2014

This leaves some time for testing, debugging cycles.

Or schedule slips....

Schedule Detail: MDC

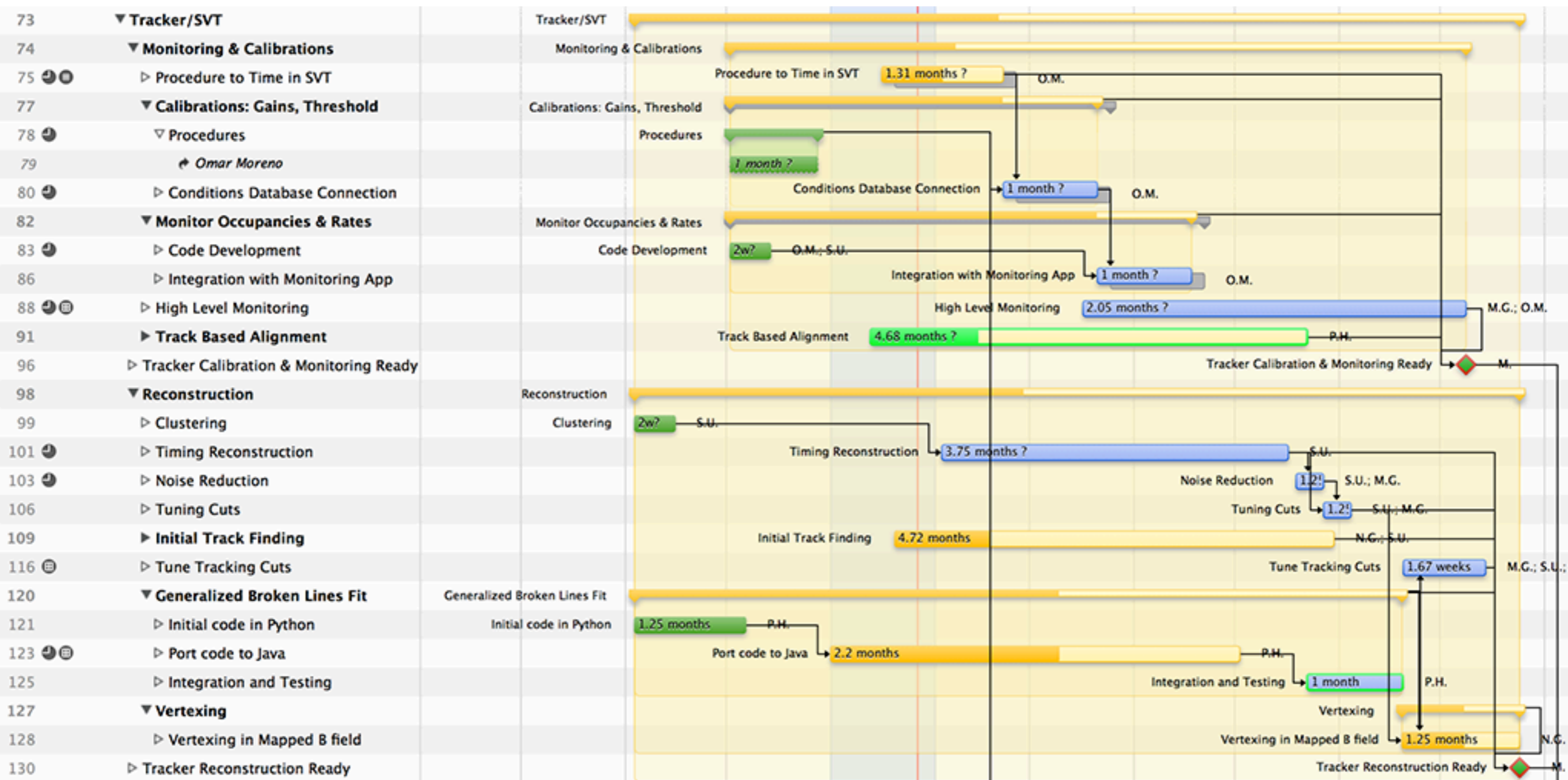


MDC Start: End of February

3 months analysis \Rightarrow MDC results: Middle of August 2014

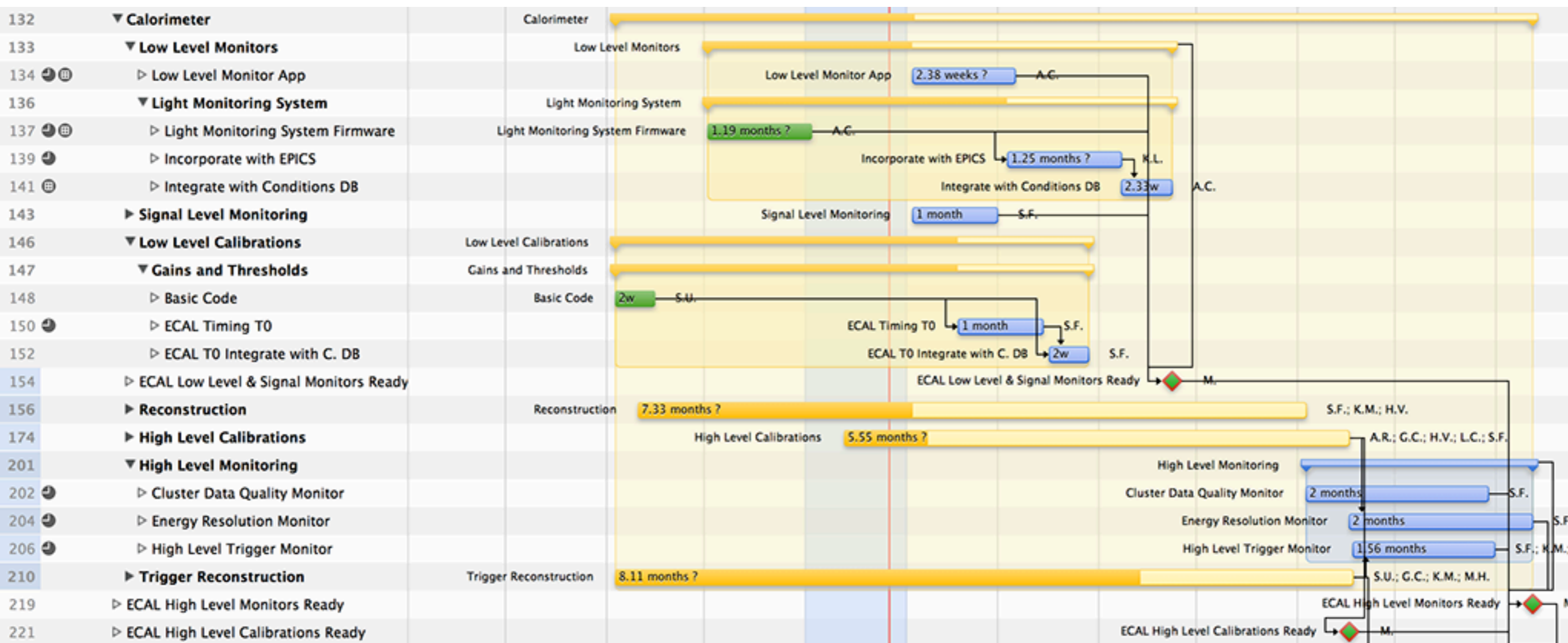
Analysis phase is *not* costed for in resource schedule!

Schedule Detail: Tracker



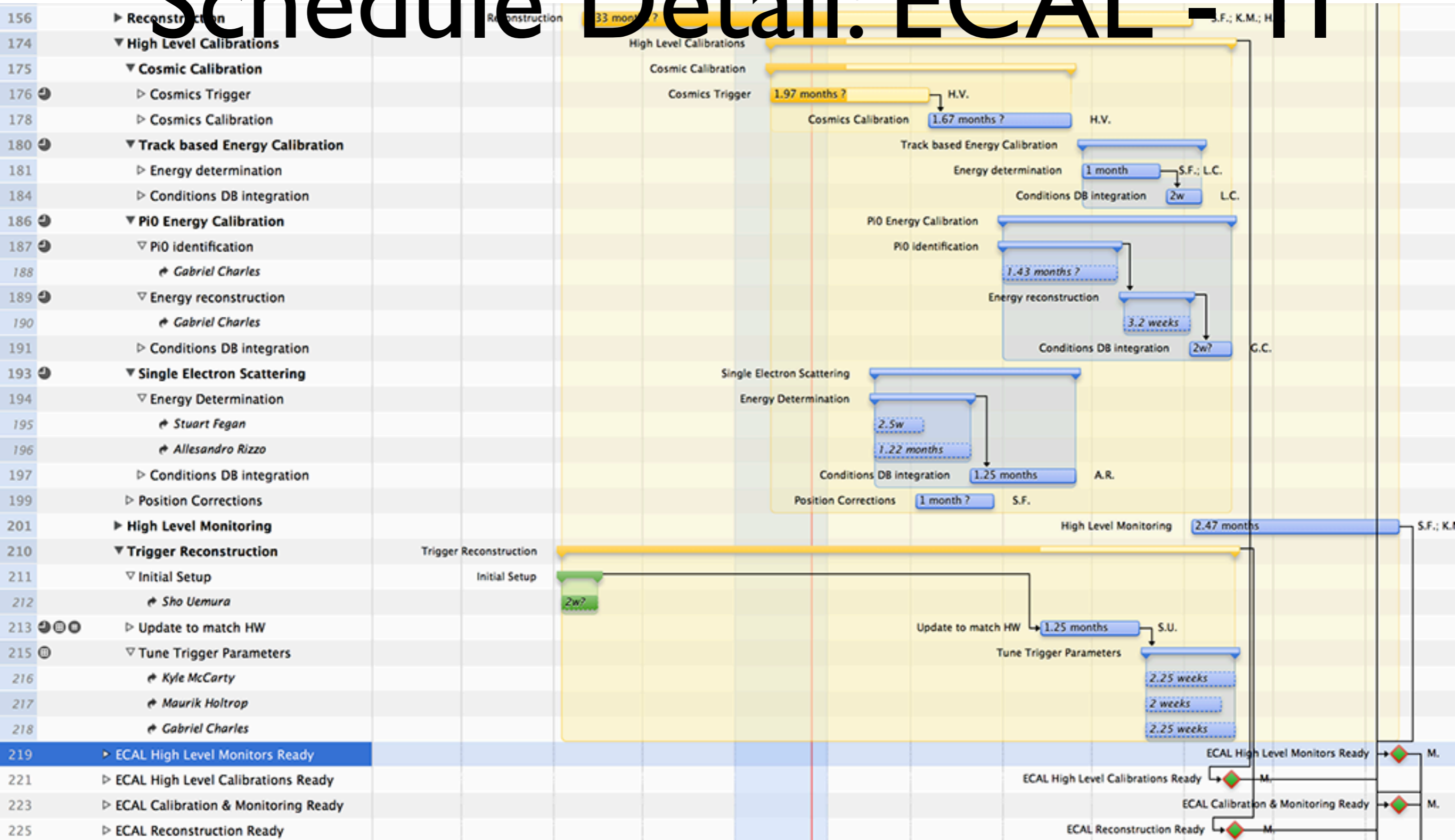
Tracker Calibration & Monitoring: July 8th
 Tracker Reconstruction: July 24th

Schedule Detail: ECAL - I



ECAL Low Level Monitoring: April 23rd
 ECAL High Level Monitoring : August 11th

Schedule Detail: ECAL - II



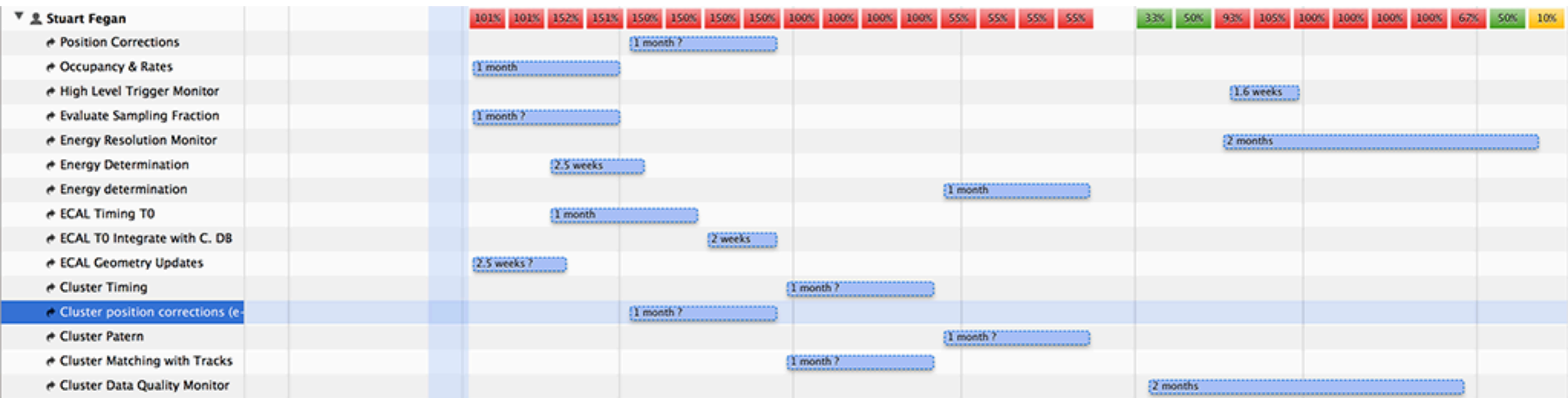
ECAL Reconstruction: June 18th

ECAL High Level Calibrations : June 16th

Resource Utilization

- I have attempted to schedule people so they stay below their stated loads.
- Not always possible, not always realistic.
(Some work much harder than their stated loads!)
- Many times tasks were spread out over time to reduce individual loads.
- Still not perfect.
- We are recruiting collaborators to contribute to software.

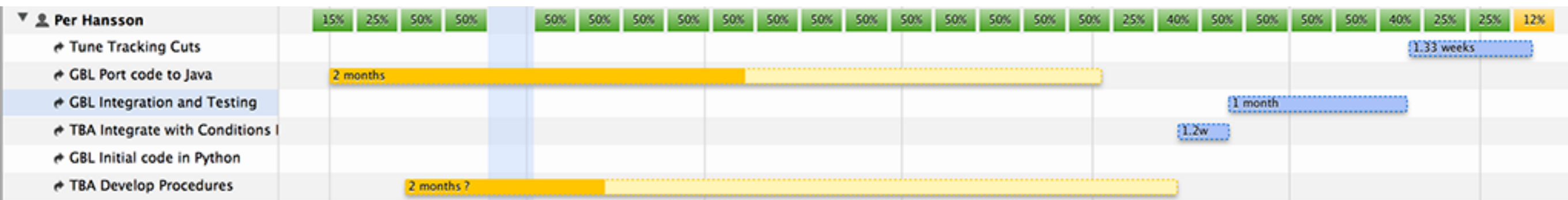
ECAL: Stuart Fegan



Stuart is in charge of distributing the ECAL software tasks. He only just started this. All otherwise unassigned tasks have been assigned to him, temporarily until other people are identified.

Low risk.

Tracker: Per Hansson



Pelle is an expert on the Generalized Broken Line tracking algorithm and alignment, but, he is over committed due to other, non software tasks.

Current setup, with code in Python, works but is cumbersome. Alignment needs to still be fully exercised. Moderate to low risk.

Conclusions

- The software schedule looks reasonable.
 - There is still some (not a lot) contingency time.
- Most resource utilization is OK, there are some tight spots.
 - Actively recruiting additional help.
 - Software workshop this week to get people up to speed.
- Moderate scheduling risks.
 - Some short term overcommitment.
 - Tracking & Tracker alignment biggest risk because experts have significant loads elsewhere.

