ILD planning

--Excerpts from slides made by Ties for Sakue to show at the ILCSC meeting end Feb.

--The slides are based on the Paris ILD meeting… the summary is attached to this WP5 agenda

--Since this summary is rather detailed, I won't try to go through it, but please read it at your leisure later

--This whole discussion is still in a state of flux, and the goal is to finalize the procedure this summer. I will keep my report short today…

ILD planning (excerpts)

ILD meeting in Paris:

- Intense discussion about the next few years of ILD (100+ people from US, EU, ASIA)

- ILD relies heavily on the work of the R&D collaborations for the detector R&D
- R&D timelines are driven by two things:

    - Plans, timelines and funds for the R&D collaborations
    - Needs by ILD

Main goal for the DBD (end 2012):

Define a detector with options, which are considered "ready" by the R&D groups
and ILD

Include list of Alternatives which are less advanced, but are promising candidates

Improve, based on real engineering, the integration of the detector and its overall
realism

Some Remarks (excerpts)

- ILD will define two baselines: hardware (engineering) and software (simulation)

- Of course these two, although not exactly the same, should be compatible

- We want to define the hardware baseline detector as late as possible

- Need to define a simulation/ software baseline much earlier:
                                                    will have two different baselines…
⇒see next slide, blue and yellow options

- We are practicing a close collaboration with the CLIC detector effort, so these developments are relevant for the CLIC study

Main Milestones (executive summary, slightly modified)
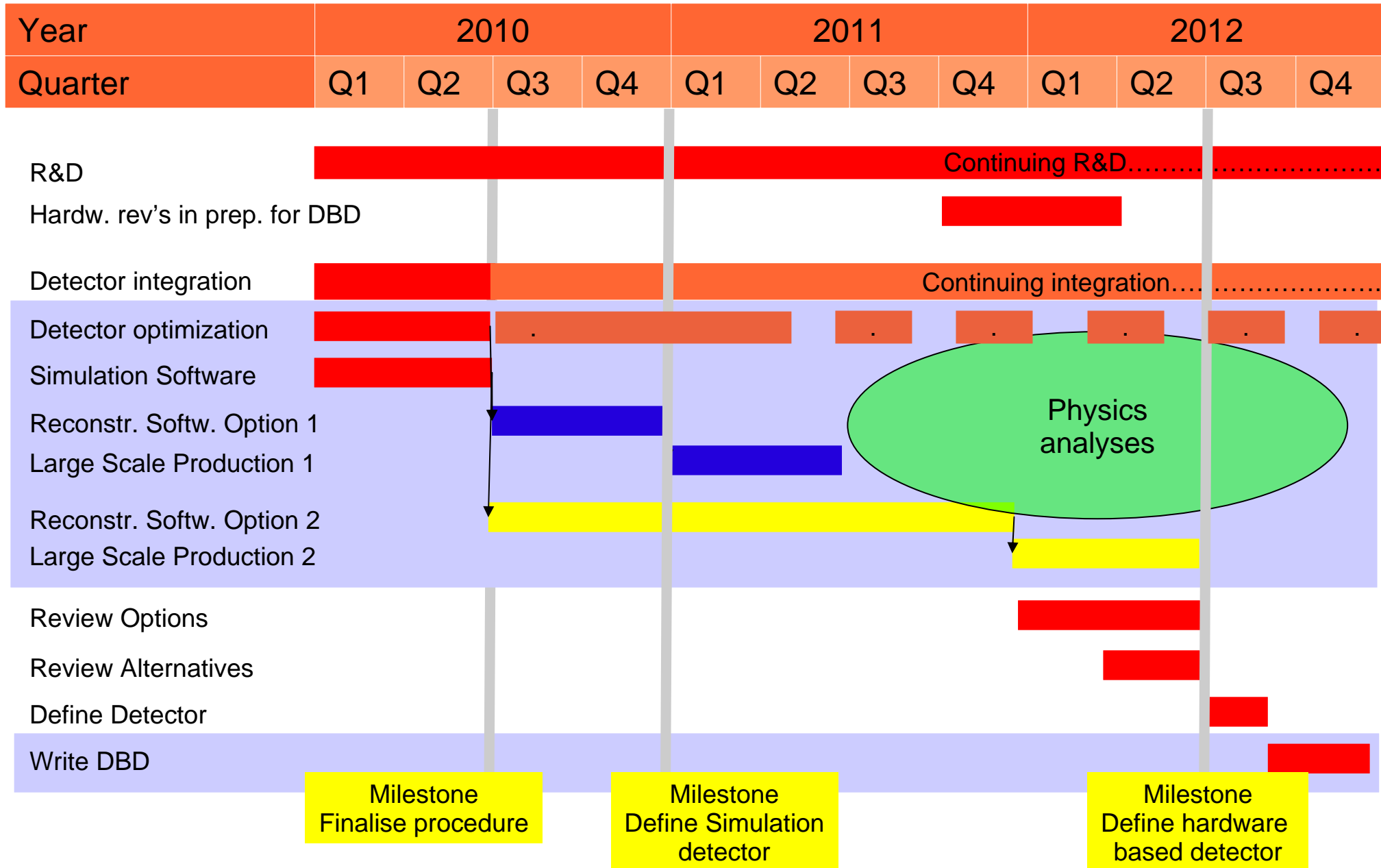
From the Paris summary: In Summer 2010,

- If it is probable that a significantly improved simulation and reconstruction can be available in time for a significant production run before mid 2012, we will wait with the production and do it using the improved software.(Option 2)

- If it seems unlikely that a significantly improved software system will be available in time for the production, we will do the production with the LOI software. (Option 1)

- In either case we will update and extend the MOKKA drivers to reflect the improved understanding of the detector.

- The simulation will be adjusted to reflect the evolution of the overall ILD parameters, as discussed in the next section.

- The review will be done at a dedicated ILD meeting in the summer of 2010.

My conclusion from all this:

=> For the TPC, we should improve the understanding of the detector at a reasonable pace. We already have the LOI TPC and should be able to make one update for the software in summer 2010 and another one at the end of 2010…