

Moving Forward

Some Fermilab Hosting Items

- Ø Will setup DocDB "instance" for nuSTORM
- Ø Will host nuSTORM WEB site
- Ø David Adey and Chris Tunnel have created a "nuSTORM COMPUTING AND SOFTWARE SPECIFICATION DOCUMENT"
 - Ø Received quite well by Computing
 - Ø Computing will assign liaison (& resources as needed)

To a Full Proposal

Ø As Pier mentioned yesterday, a more detailed proposal might allow for faster transitions through the Critical Decision phases

Ø In particular CD0 ® CD1

Ø Positive note:

Ø Studies done since the PAC meeting have, so far, confirmed our assumptions in the LOI

Ø In fact, nothing done has refuted what we said; or has presented a new Road Block

Ø Radiological analysis by Kamran Vaziri

Ø Work list (not all inclusive)

- Ø Full end-to-end simulation of facility
 - Ø Targeting/capture/transport/injection/multi-turn tracking
 - Ø n flux
 - Ø Including timing and decay-ring instrumentation
 - Ø Done for both options ideally - FODO & RFFAG rings
- Ø Event generation and MC development
 - Ø Detailed study of all accessible oscillation channels
 - Ø n interaction physics in near hall
 - Ø Detector optimization

Ø Iterations on the above and then costing

Ø Project Definition Report

- Ø Facilities Engineering Services Section (FESS)

Ramblings on Detector R&D

- Ø For many years non-baseline detectors for the NF have been mentioned
 - Ø Magnetized LAr
 - Ø Magnetized emulsion (mECC)
- Ø However, no real work was done on these detector concepts.
 - Ø No simulation effort, no performance benchmark
- Ø Are Detector R&D needs/desires worth including in the proposal & our effort plan over the next year?

Reality Check

- Ø Accomplishing that work list for the June 2013 PAC meeting is "Ambitious", particularly for an unfunded "mandate"
- Ø Our own estimate was 13 FTE
 - Ø Maaaybeeee, we have 1/3 of that on board
 - Ø Particle tracking effort is grossly underestimated?
- Ø Recommendation?
 - Ø Follow John DeLorean's paradigm?

Comments/Discussion