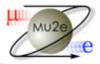


WP2 update

Matteo Martini and Stefano Miscetti

MUSE Scientific Committee 24 October 2016





The main update respect to our previous General Meeting on September:

- Mu2e General Meeting in FNAL between 19 and 22 October;
- Progress in Module-0 construction (completion January 2017);
- Progress in Mock-up construction (completion February 2017);
- Calorimeter slice test planned with Module-0
- Mechanical review delayed (end 2016);
- Purchase order for crystals preproduction submitted from FNAL on 18th October (Saint Gobain, SICCAS, Amcrys);
- Procurement of 150 mu2e SiPM (50 pieces per vendors) completed on October 17th (Hamamatsu, SENSL, Advansid);
- Optimization of calorimeter cooling plate in progress.





Status of "large" bids: crystals

- 3 vendors selected for preproduction (72 crystals) St. Gobain, Siccas, Amcrvs
- S.Miscetti Muze GM All firms accepted have prices < 1500 \$/piece (well inside our budget) 0
- We have required them to provide 24 pieces/each for module-0. 0
- The same crystals will be used to technically evaluate the firms. 0

Purchase Order from FNAL submitted on 18/10.

- → St. Gobain and Siccas delivery in 2-4 weeks.
- → No information yet from Amerys.
- Procurement of additional 50 crystals from Amcrys via Dubna group. Specifications proposed are similar: only difference is LY> 80 pe/MeV w.r.t. LY(Mu2e)>100 pe/MeV
- This will increase the number of crystals tested for technical evaluation.
- Delay for Module-0 assembly for test beam @ BTF end of November
- Still in time for Module-0 completion @ end of 2016/beg. 2017

S.Miscetti, MU2E Calorimeter Workshop 11

Mu₂e

October 12, 2016

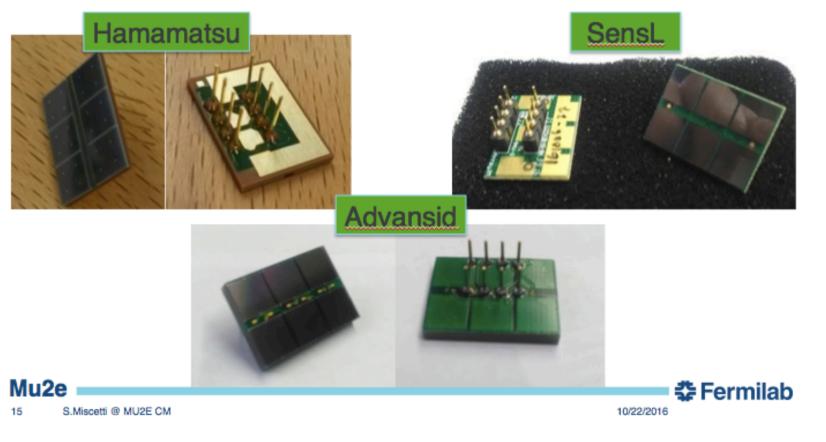
🗱 Fermilab



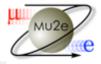


Mu2e SIPM pre-production – delivered pieces

SipM procurement -livered pieces - barameters use Give Each SiPM has its own ID and the firm has provide all the parameters. required for each single SiPM of 6x6 mm² (cell) of the array: (i.e Hamatsu _{XX}, Vop = $_{YYYY}$ V, Id = $_{ZZZ}$ uA)







- All activities related to WP-2 are proceeding smoothly
- A lot of work is in progress to finalize:
 - Mechanical structure
 - Module-0 and Mockup for physics and engineering tests
- Crystals and SiPMs procurements are proceeding according to schedule
- Collaboration between people and institutions involved in WP-2 is solid!