WP 4 (Mu2e) status

Task 4.2 (EMC):
main contributors (currently):
- INFN: S. Di Falco, L. Morescalchi, G. Pezzullo
- FNAL: P. Murat
- CALTECH: B. Echenard

Current Status:
Calorimeter simulation is well established: geometry, details physics effects taken into account, reconstruction etc...
Work in process on (as reported on doc: #6249):

Geant 4: include electronics, front/back plates, support structure, readout structure
Digitization (priority): finish code, optimize and deploy (people have reported leaks with current code) propagate MC truth
**Clustering**: essentially done, tweak parameters to improve resolution.
Track – cluster matching: deploy new code with ML algorithm
Trigger: develop calorimeter-assisted trigger code and assess performance develop calorimeter standalone code and assess performance
Calibration: currently nothing – coders don't need to worry about breaking existing code
Cosmic Rays: base ideas but not yet implemented.
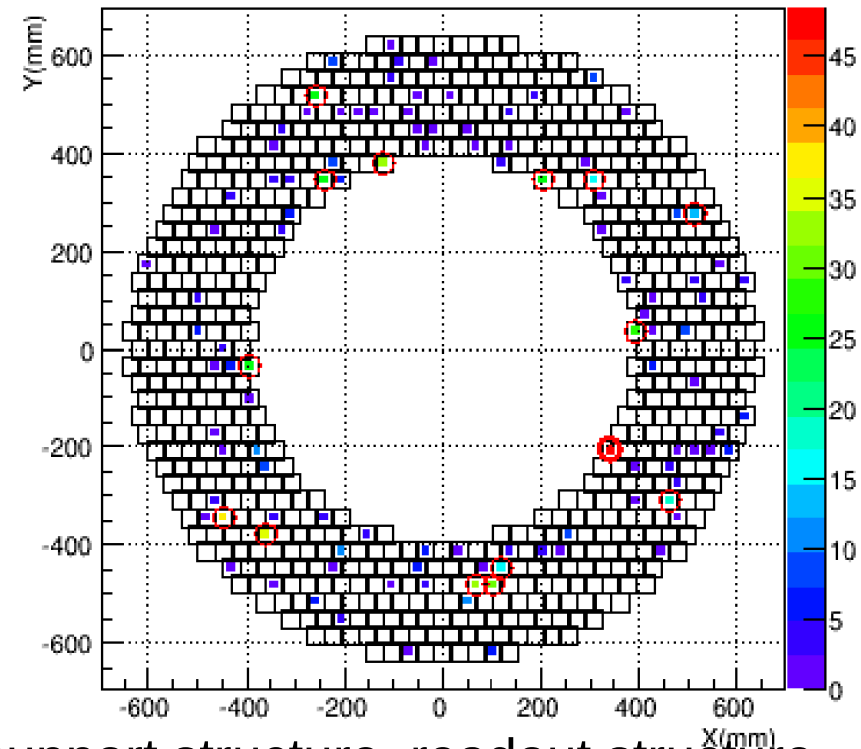
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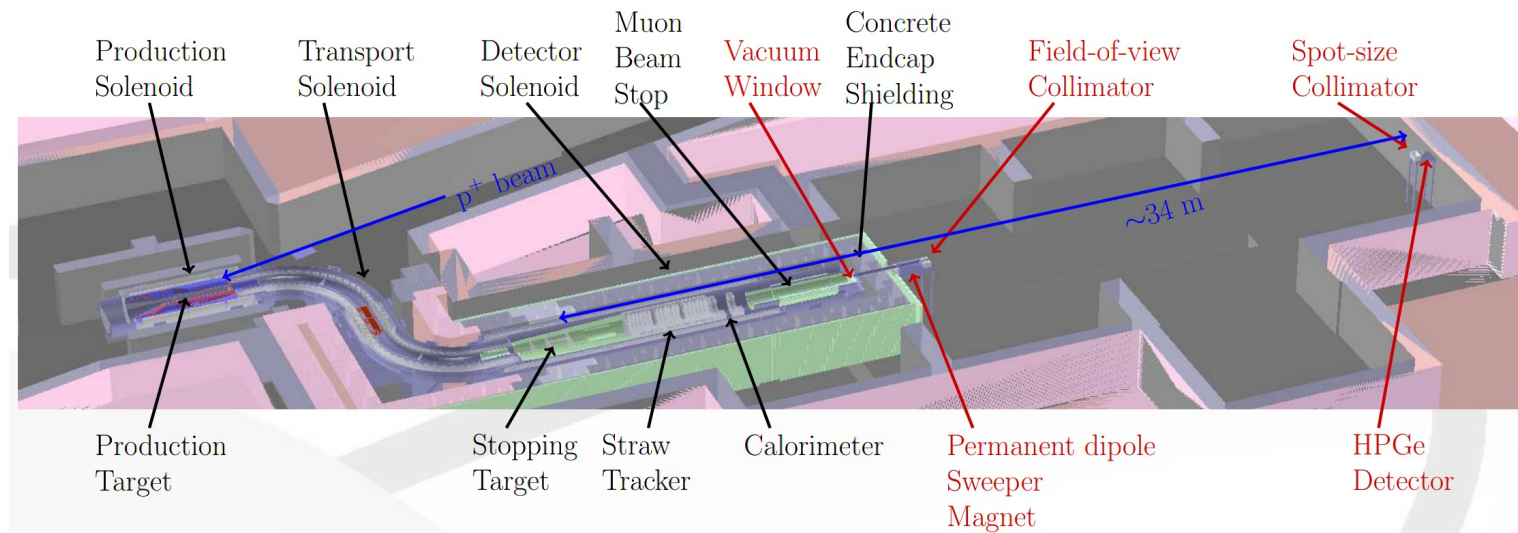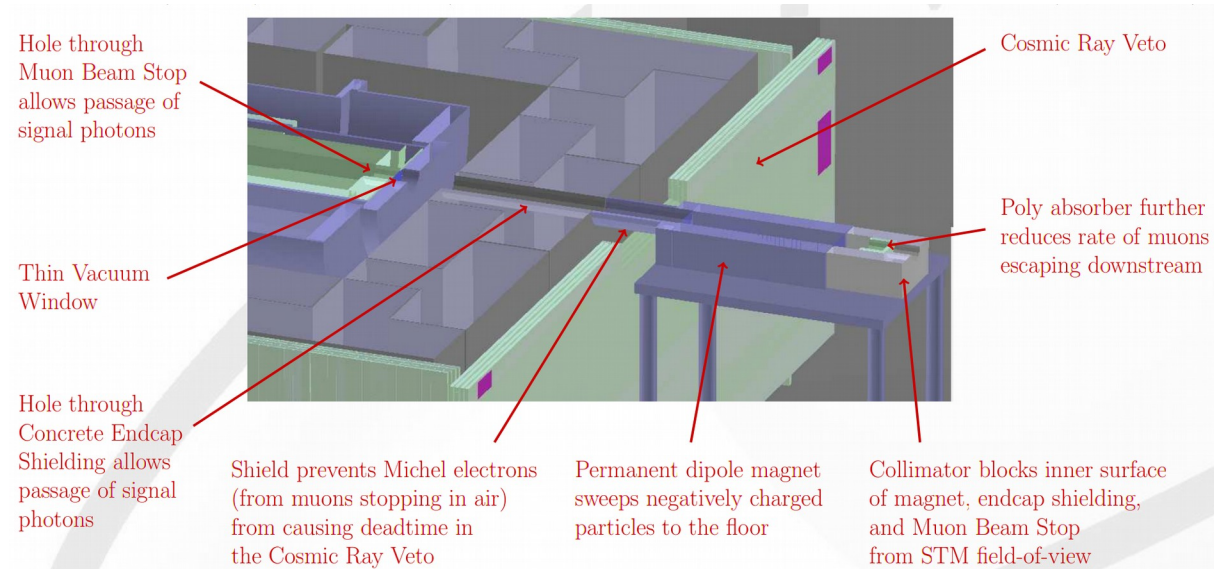**Task 4.2 (HPGe):**
main contributors (actually):
- BOSTON: A. Palladino, J. Quirk

Current Status:

STM simulation is in Mu2e Offline framework: geometry, details physics effects taken into account and some analysis tools are present.

More details on doc: #4902, 6680, 6494, 5128, 6183, 5730

However I was not able to found information about the details status of the simulation, a careful further check is needed.