4418E. report and news

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INFN Frascati

2018: Milestones and Deliverables

Number	WP	Name	Lead Beneficiary	Due date	Туре
MS4	3	Mu2e laser assembled	INFN	30 Jun 2018	√
MS5	3	Muon g-2 calibration commissioned	UCL	31 Dec 2018	
D2.3	2	Mu2e HPGe design	LIVERPOOL	31 Mar 2018	Report 🗸
D5.3	5	Masterclasses	LIVERPOOL	30 Apr 2018	Other
D4.1	4	Mu2e code	INFN	31 Aug 2018	Other
D7.6	7	3rd MUSE General Meeting	INFN	30 Sep 2018	22-24 Oct
D6.1	6	Irradiation tests	INFN	31 Nov 2018	Report
D6.2	6	SiPM characterization	HZDR	31 Dec 2018	Report
D2.2	2	Production DB	INFN	31 Dec 2018	Other
D7.2	7	Second Progress Report	INFN	31 Dec 2018	Report

D4.1: Mu2e code

Task 4.2: Development of Mu2e simulation code (INFN, HZDR, LIV, FNAL)

We have to develop the Mu2e simulation and the reconstruction code for the calorimeter and HPGe detectors. A more realistic description of the detector and of the calibration procedure will be inserted in the GEANT4 simulation environment. For the calorimeter, the reconstruction will be completed to tune the calorimeter-seeded track reconstruction. If successful, this method will be also used at software trigger level. The usage of HPGe as stopping monitor system will be fully simulated. Comparisons between FLUKA simulations and the Mu2e codes for neutron transport and interactions will be performed, both for background studies and for specific shielding cases.

Write sharing:

- 1. Calorimeter (INFN)
- 2. Stopping Target Monitor (LIV/UCL)
- 3. Neutrons (HZDR)

MUSE report: Jan-Jun 2018

Usual report for the period January-June 2018:

- 1. WP report
- 2. Status of secondments
- 3. Status of deliverables and milestones
- 4. Trainings
- 5. Talks
- 6. Publications