

GAMMAMEV@H8 2023

Oct 25 - 29

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INFN - Bari

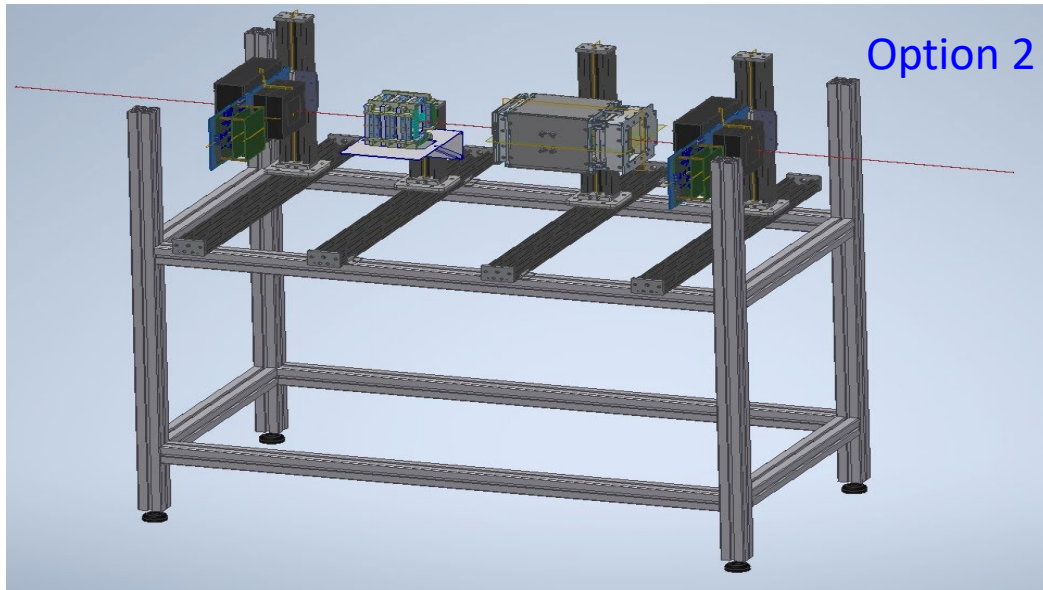
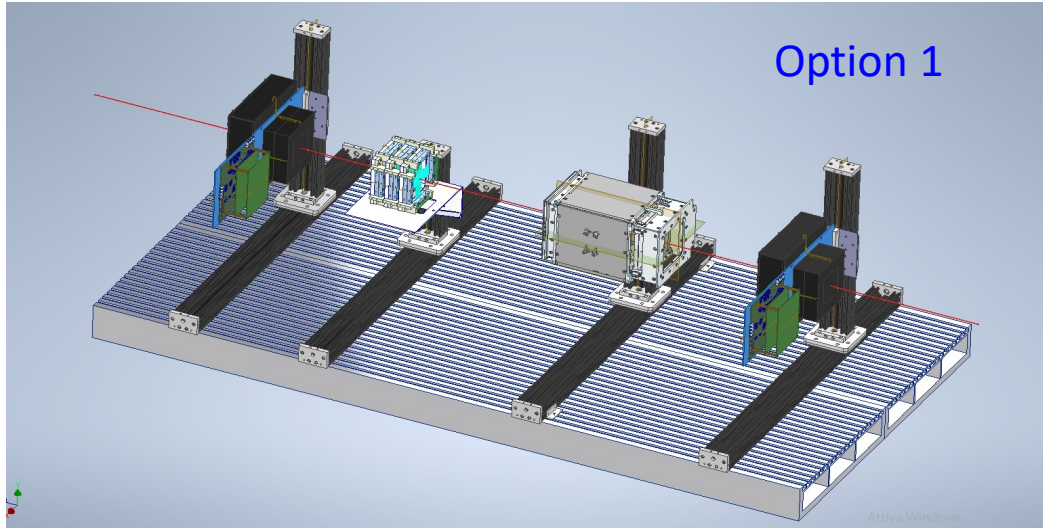
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NA 2023 Ion Run preparation Sep 21, 2023

Test goals

- Development of a low energy detector for space application
 - Proton
 - Electron
 - Nuclei
 - Photons
- The prototype detector consists of:
 - Light scintillating fiber tracker readout by SiPM array
 - Stack of plastic scintillator tiles readout by different SiPM sizes
 - Matrix of small cube of crystals (LYSO/GAGG) readout by different SiPM sizes
- Beam test goals:
 - Tracking performance studies
 - Calibration, dynamic range, energy resolution, Z resolution

Set-up layout



- Set-up: similar to the one used at T10 in September
- Option 1
 - We would like to use a couple of bosch-like (box) tables as the one available in the T10
 - A couple of concrete blocks will be needed as basement: The beam should be at about +35 cm from the top plane
- Option 2:
 - Custom table assembled with bosh-like bars
- Ancillary systems:
 - Upstream/Downstream: Plastic scintillator fingers for external triggering purpose
- Beam requirements
 - Ion fragment
- Racks, tables and control room as usual

Timeline (tentative)

- Oct 25:
 - Set-up installation starting as early as possible in the morning
 - Safety clearance visit (4 PM ?)
 - Start physic runs as soon as possible
- Oct 26 – 29:
 - Data taking
- Oct 30 (I guess no beam):
 - Set-up dismounting early in the morning