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MUSTAR POC: updates

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The PoC for MUSTAR

- Possible development of activities
- Status of preparation of the muographic apparatus

Estimation of the duration of activities: new version (preliminary)

Hypothetical development of activities:





The PoC for MUSTAR Status of the instrumentation





- Carnet ATA ?
- On-site handling
 - Crane?
- Geometry (dedicated meeting)
- Setup of network (wifi or cable)
- UPS
 - Near detector or far in a safe place?
 - Duration of black-outs?
- Tent and termal stabilization

The PoC for MUSTAR Status of the instrumentation



Preliminary measurements of the integrated muon (CR) flux Survey at the Rising Star cave in the Cradle of Humankind



Backup

Final comments Very important: details of the site and the potential installation points

Rock thikness might be too large Requested info for preliminary simulation:

- ~1 m precision lidar of external surface
- 3D laser scan of the installation gallery
- Approximate values of average densities
- Installation point for the measurement

Possible presence of unwanted massive structures along the measurement directions (another mountain on background) Large field of view (120 deg aperture)

Detector

POSITION A

Possibility to measure from outside of the mountain, but material thickness could be extremely large

POSITION B

Derector

uStar PoC : updates (L. Bonechi - INFN Firenze)