Preliminary integration of XSEN

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1. Introduction
2. Preliminary integration
3. Conclusions
1. Introduction
XSEN detector concept

- Conceptual design stage.

- x108 emulsion “bricks” surrounded by a borated polyethylene layer.

- No services needed.
  - A SciFi might be included in the set-up where cabling and racks would be required (under discussion).

- Neither digging into the tunnel concrete (only drilling for fixing the feet).

- Total weight: ~0.5 t.
• XSEN has been proposed to be installed in TI18.
  • TREX meeting #23 (link).
Proposed location - TI18

Where?

TI18

Courtesy of Dragoslav-Laza Lazic
2. Preliminary integration
• New integration model created.

• Few services 3D models updated in order to comply with the scans.

• Material and components to be transported to TI18 side underneath the LHC machine with a “chariot” (to be designed).
• Precise position of the services to be checked during next visit.
• The disconnected lighting might be re-connected for better illumination during the installation.
3. Conclusions
Conclusions

• Preliminary integration of XSEN detector done.
  • Position of the services inside TI18 to be checked for possible conflicts.

• No services needed.

• Neither digging into the tunnel concrete.

• No show-stoppers concerning the integration.
THANKS YOU FOR YOUR ATTENTION!
Back-up slides
Candidate area for material passage
Disconnected light
220 V power strip close to UJ18