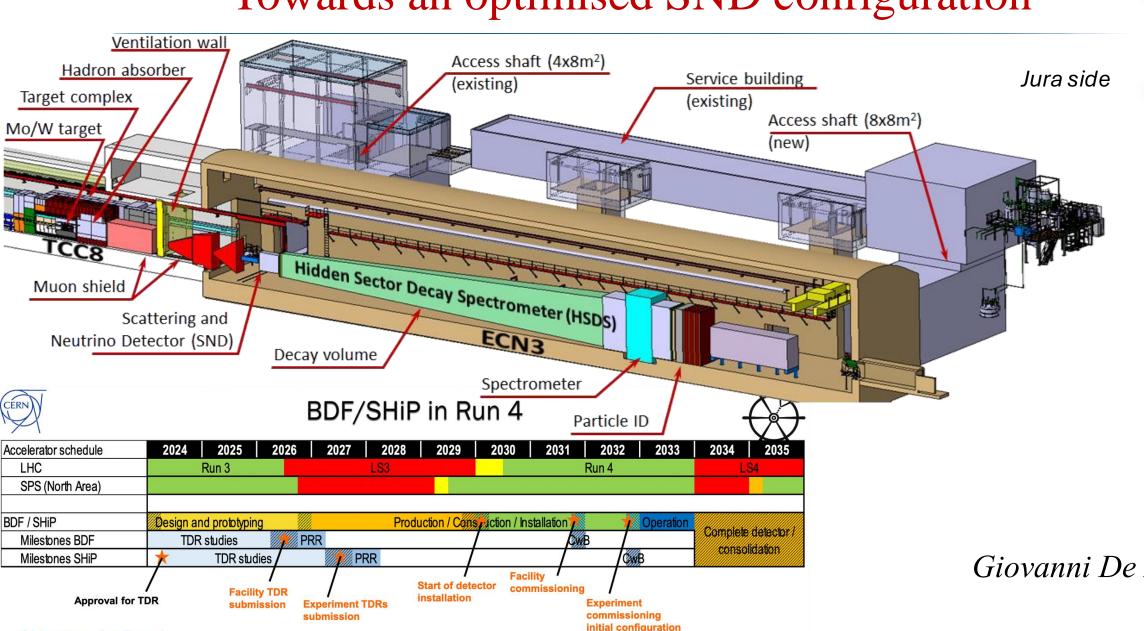
Towards an optimised SND configuration

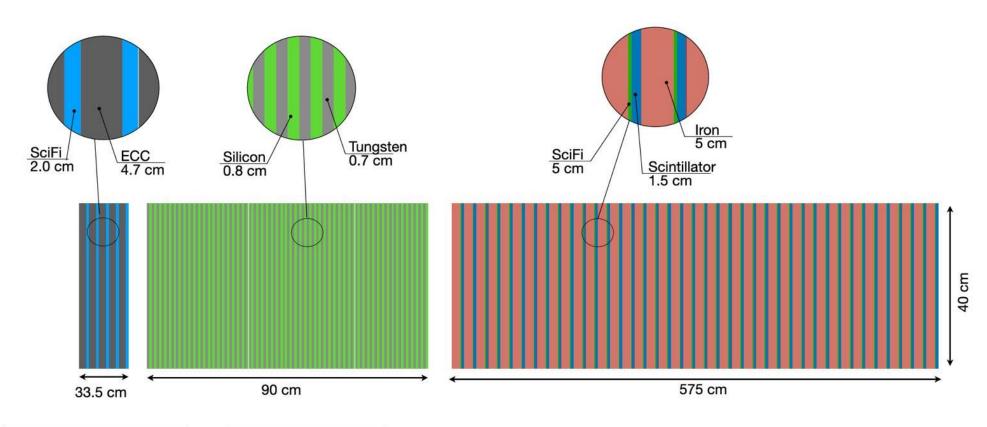


Objectives for Run 4



Giovanni De Lellis

Detector concepts

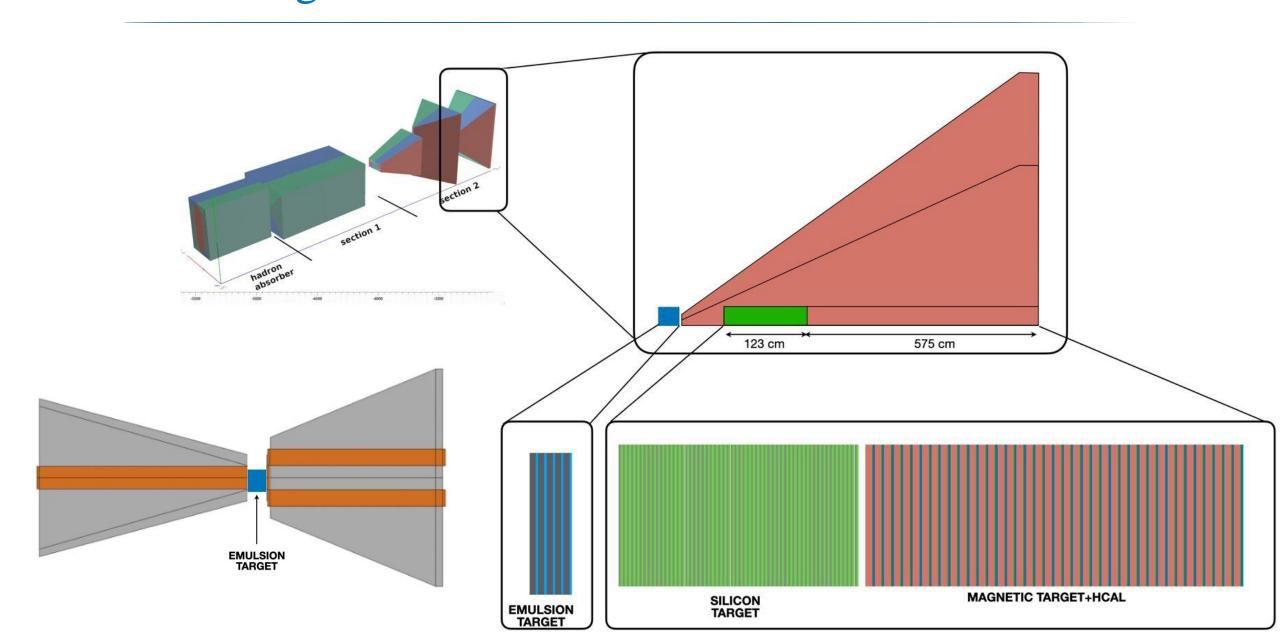


| ECC | 5 | Tungsten | 180 |
|-------|---|----------|-----|
| | 5 | Emulsion | 180 |
| SciFi | 5 | | |

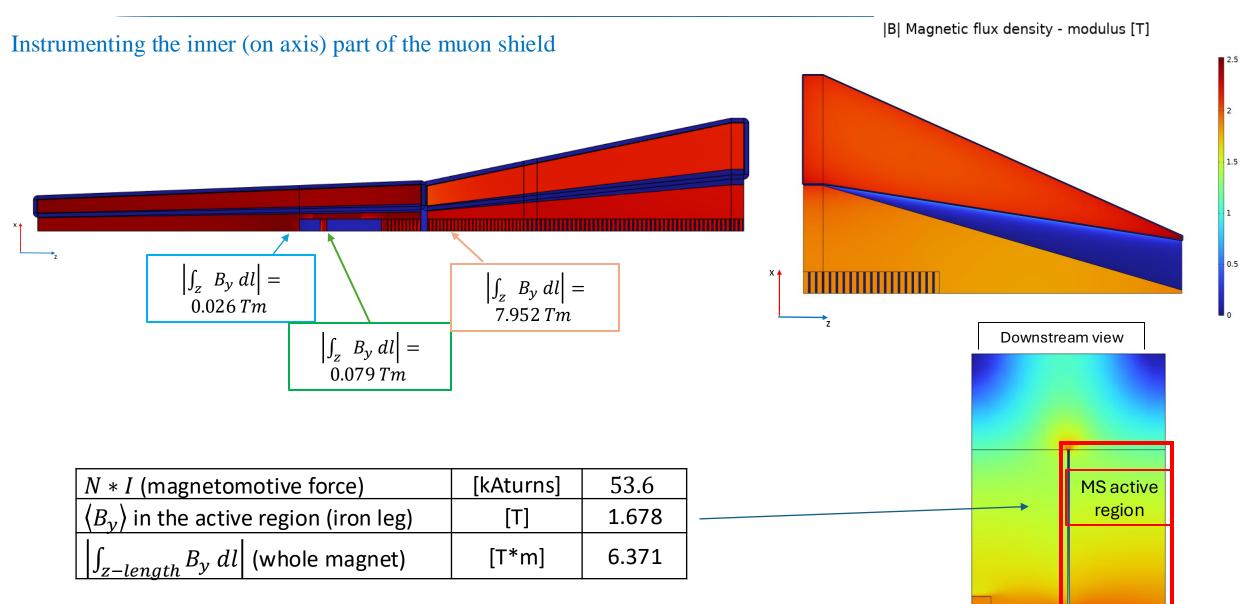
| SILICON TARGET | | |
|----------------|--|--|
| 60 | | |
| 60 | | |
| 1.2 ton | | |
| | | |

| MAGNETIC TARGET+HCAL | | | |
|----------------------|---------|--|--|
| Iron | 50 | | |
| Scintillator | 50 | | |
| SciFi | 50 | | |
| Weight | 3.1 ton | | |

Possible configuration inside the muon shield



Electromagnetic studies (Naples group)



Other aspects to be studied

- Thermal map of the magnet (not critical, far from the coils)
- Need to address the following points:
- Services to host a detector
- Mechanical: how to access/maintain the detector planes
- Environmental radiation
 - Muon-induced radiations
 - Neutrons and neutral hadron flux
 - Gamma flux

