

## CNGS Commissioning Goals

Goal	Parameters	Beam Instrumentation	Commissioning Goals
1	Proton beam parameters on target	Proton beam intensity monitor BFCT412425	Intensity: : 2.4 E13 per extraction or maximum available from injectors
		Proton beam profile monitor BTVG412445	Beam sizes : $0.45 < \sigma_{x,y} < 0.7$ for nominal target unit
		Proton beam position monitor BPKG412449	Proton beam position stability better than $\pm 0.5\text{mm}$
2	Proton beam direction on target	Proton beam position monitors BPG412424 and BPG412444	Proton beam direction established within better than 0.2mr of the known direction to Gran Sasso detectors
3	Proton beam position along TT41	Proton beam position monitors along TT41	Trajectory excursion less than +/- 4 mm
4	Muon detector parameters	Muon monitors in TNM41 and TNM42	Intensity per proton and Profile within xx% (tbd by SBWG) of simulated values