

Status of BOS/F MDT Chamber Construction

- ❑ 88 chambers + 12 spares + 106 supports to be built.
 - ❑ 87 chambers + 12 spares chambers glued.
 - ❑ 77 chambers + 10 spares complete with final electronics.
 - ❑ 68 chambers at CERN.
 - ❑ 43 chambers integrated with RPC at CERN, 4 installed.
 - ❑ 79 chambers + 10 spares tested at LMU.
 - ❑ 77 chambers + 10 spares tested with final electronics.
 - ❑ 90 common supports assembled, 78 at CERN, 10 installed.
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- ❑ 1 chamber to be glued.
 - ❑ 6 chambers to be assembled with gas system.
 - ❑ 11 chambers to be assembled with final elec.
 - ❑ 11 chambers to be tested at LMU.
 - ❑ 45 chambers to be integrated with RPCs at CERN.
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	7A	6A	5A	4A	3A	2A	1A	1C	2C	3C	4C	5C	6C	7C
02		GTE	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	
04		GTE	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTE
06		GTE	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTEI	GTE
08		GTE	GTEI	GTEI	GTEI	GTEI	GTE	GTE	GTEI	GTEI	GTEI	GTEI	GTEI	GTE
10		GTE	GTE	GTE	GTE	GTE	GTE	GTE	GT	2160	G	GTE	1920	
16		1920	GTE	GTE	GTE	GTE	GTE	GTE	GT	G	GTE	GTE	1920	
12	G		GTE		GTE		GTEI	GTEI		GTE		GTE		GTE
14	1200		GTE		1920		GTEI	GTEI		GTE		GTE		GTE

2160, 1920, 1440, 1200 mm = glued
 G = Gas system mounted
 GT = tested with prelim. electronics
 GTE = tested with final electronics
 GTEI = integrated with RPC

Schedule

- ❑ Installation sectors 2-8 November/December 2005
- ❑ Installation sectors 12&14 and 10&16 first quarter 2006
- ❑ Chamber integration at CERN until March 2006,
start of commissioning in ATLAS
- ❑ Chamber construction until end of this year
- ❑ Chamber test at LMU until January 2006

Muon Spectrometer Calibration & Alignment Center

Tasks:

- ❑ t_0 calibration: 10000 hits/tube.
- ❑ r-t calibration: 10000 track segments/calibration region, 10000 calibration regions/ 5500 m² chamber area, temperature, B field, background rate corrections.

Recalibration once per day with muon rate 10^8 /day, data stream of 2.5 kHz x 1 kByte to dedicated calibration centers associated with Tier 2.

- ❑ Quasi-online track-based alignment of muon spectrometer, internal and w.r.t. inner tracker, every 2 h with the same data stream.

Proposal for 3 calibration centers: Rome, Michigan, Munich. About 100 CPUs and 4 FTE per center (shared by LMU&MPI).