MDT Chamber - Sign Convention

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The following outlines the official CERN MDT sign convention as defined in the Parameter Book and MDT End Cap Detector drawings referenced.

Ref: ATLM____ 0005 Layout EI Chambers
     ATLM____ 0003 Layout EM Chambers

Side A, Side C

EIL, EML chambers:
- Thin flange (or notch) on SF is away from the IP.
- ML-1 is on the side facing the IP.
- ML-2 is on the side away from the IP.
- Tube Layer #1 faces the IP for both ML-1 and ML-2.

EIS, EMS chambers:
- Thin flange (or notch) on the SF is toward the IP.
- ML-1 is on the side facing the IP.
- ML-2 is on the side away from the IP.
- Tube Layer #1 faces the IP for both ML-1 and ML-2.

The PMO is located between the small and large chambers:
- Small Chambers (EIS, EMS) the PMO is mounted on the top layer of ML-2, the ML away from the IP.
- Large chambers (EIL, EML) the PMO is mounted on the top layer of ML-1, the ML closest to the IP.

Side A Chambers - Looking toward the IP along –Z (small end of trapezoid down):
- Small chambers EIS, EMS: the thin flange (or notch) faces the IP and the RO side is on the right side of the chamber, HV on the left side.
- Large chambers EIL, EML: the thin flange (or notch) is away from the IP and the RO side is on the left side of the chamber, HV to the right side.

Side C Chambers - Looking toward the IP along +Z (small end of trapezoid down):
- Small chambers EIS, EMS: the SF thin flange (or notch) faces the IP and the RO side is on the left side of the chamber, HV on the right side.
- Large chambers EIL, EML: the SF thin flange (or notch) is away from the IP and the RO side is on the right side of the chamber, HV on the left side.