Conclusions

- **The full-scale prototype of a large MDT precision chamber for the ATLAS muon spectrometer has been constructed with methods suitable for large-scale production.**

  The required wire positioning accuracy of better than $20\ \mu$m (rms) has been achieved.

- **The test beam results show the required performance for a large chamber with 432 tubes.**

  The operation of a large system of drift tubes with Ar:CO_2 (93:7) gas mixture requires great care starting from the fabrication of the drift tubes.

- **Chamber production for ATLAS has now started in Munich (in collaboration with JINR Dubna) and at other production sites to be completed end of 2003.**

- **Demonstration of the high required accuracy of the alignment monitoring system for the ATLAS muon spectrometer is in progress.**

  (For the optical position sensor developments: see the poster session.)