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## The wiring of 30,000 Drift Tubes for the ATLAS Muon Spectrometer at the University of Athens

The University of Athens (UoA) was responsible for the wiring of about 30,000 MDTs (Monitored Drift Tubes), which were then used for building the ATLAS-BIS (Barrel Inner Small) Muon Chambers. These tubes were precision drift tubes of finished length of 1671.5 mm. The 112 ATLAS-BIS chambers form part of the inner layer of the Muon Spectrometer and are already installed in the ATLAS pit. The necessary tooling together with the procedure followed for the wiring will be presented. The wire had to be placed with an accuracy of less than 20  $\mu\text{m}$ . The production took over 4 years during which it was constantly monitored by specialized quality checking tasks. Emphasis will be given to the experience obtained and to the performance, together with the quality assurance of the total number of the 30,000 tubes.

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