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## **First results of the CMS muon system using the 2006 cosmic runs of the magnet test**

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During summer 2006 the solenoid magnet of CMS was tested for the first time at its nominal field of 4T with a slice of each sub-detector operational. The first results and lessons learned with the cosmic runs taken in this configuration will be presented here with emphasis in the muon system. The magnet test has provided a unique opportunity to demonstrate the combined operation of CMS components from Magnet, Detector, Control Systems, Trigger, DAQ, Software and computing to allow early identification of problem areas and solutions one year before the actual LHC operation.

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