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Construction and Tests of new Resistive Plate Chambers for the Upgrade of the CMS Endcap System

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The CMS muon endcap system presently comprises three disks of RPCs, with a fourth disk under preparation with detectors and associated services. This new station, RE4, will be installed in the LHC first Long Shutdown during 2013-2014. In this talk we describe the new RPCs developed for this upgrade, based on lessons learnt from the earlier work. We report on tests performed after the assembly of two first prototypes.

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